TABLE OF CONTENTS
VOLUME I

Preface

• INTRODUCTION

TRANSLATION

• THE FIRST DISCUSSION Concerning the Eternity of the World
  THE FIRST PROOF
  THE SECOND PROOF
  THE THIRD PROOF
  THE FOURTH PROOF

• THE SECOND DISCUSSION: The Refutation of their Theory of the Incorruptibility of the World and of Time and Motion

• THE THIRD DISCUSSION: The demonstration of their confusion in saying that God is the agent and the maker of the world and that the world in His product and act, and the demonstration that these expressions are in their system only metaphors without any real sense

• THE FOURTH DISCUSSION: Showing that they are unable to prove the existence of a creator of the world

• THE FIFTH DISCUSSION: To show their incapacity to prove God’s unity and the impossibility of two necessary existents both without a cause

• THE SIXTH DISCUSSION: To refute their denial of attributes

• THE SEVENTH DISCUSSION: To refute their claim that nothing cars share with the First its genus and be differentiated from it through a specific difference, and that with respect to its intellect the division into genus and specific difference cannot be applied to it
THE EIGHTH DISCUSSION: To refute their theory that the existence of the First is simple, namely that it is pure existence and that its existence stands in relation to no quiddity and to no essence, but stands to necessary existence as do other beings to their quiddity.

THE NINTH DISCUSSION: To refute their proof that the First is incorporeal.

THE TENTH DISCUSSION: To prove their incapacity to demonstrate that the world has a creator and a cause, and that in fact they are forced to admit atheism.

THE ELEVENTH DISCUSSION: To show the incapacity of those philosophers who believe that the First knows other things besides its own self and that it knows the genera and the species in a universal way, to prove that this is so.

THE TWELFTH DISCUSSION: About the impotence of the philosophers to prove that God knows Himself.

THE THIRTEENTH DISCUSSION: To refute those who arm that God is ignorant of the individual things which are divided in time into present, past, and future.

THE FOURTEENTH DISCUSSION: To refute their proof that heaven is an animal mowing in a circle in obedience to God.

THE FIFTEENTH DISCUSSION: To refute the theory of the philosophers about the aim which moves heaven.

THE SIXTEENTH DISCUSSION: To refute the philosophical theory that the souls of the heavens observe all the particular events of this world.

ABOUT THE NATURAL SCIENCES.

THE FIRST DISCUSSION: The denial of a logical necessity between cause and effect.

THE SECOND DISCUSSION: The impotence of the philosophers to show by demonstrative proof that the soul is a spiritual substance.

THE THIRD DISCUSSION: Refutation of the philosophers’ proof for the immortality of the soul.

THE FOURTH DISCUSSION: Concerning the philosophers’ denial of bodily resurrection.

The End: E-text note.

APPENDIX: Changes proposed in the Arabic Text 365
INDEX of Proper Names 374

INDEX of Proper Names mentioned in the Introduction and in the Notes 207

Index of Subject/ mentioned in the Notes 211
Some contradictions in Aristotle’s System 215
Arabic-Greek Index to the Notes 216
Greek-Arabic Index to the Notes 218

PREFACE

I wish to express my warmest thanks to the Trustees of the Gibb Memorial Fund for making the publication of this work possible, and especially to Professor Sir Hamilton Gibb, who asked me to undertake the work and who has not only read the proofs but has continually given me his interest and encouragement. I am also deeply indebted to Dr. R. Walzer, who has read the proofs, carefully checked the references in my notes, and composed the indexes and the Greek-Arabic and Arabic-Greek vocabularies. I have also to thank Dr. S. M. Stern for his help in completing the subject-index. Finally, I wish to pay a tribute to one who is no longer amongst us, Father Maurice Bouyges, without whose admirable text the work could never have been undertaken.


The asterisks indicate different readings from those to be found in Bouyges’s text: cf. the Appendix, Vol. I, pp, 364 ff.

INTRODUCTION

If it may be said that Santa Maria sopra Minerva is a symbol of our European culture, it should not
the mosque also was built on the Greek temple. But whereas in Christian Western theology there was a gradual and indirect infiltration of Greek, and especially Aristotelian ideas, so that it may be said that finally Thomas Aquinas baptized Aristotle, the impact on Islam was sudden, violent, and short. The great conquests by the Arabs took place in the seventh century when the Arabs first came into contact with the Hellenistic world. At that time Hellenistic culture was still alive; Alexandria in Egypt, certain towns in Syria—Edessa for instance—were centres of Hellenistic learning, and in the cloisters of Syria and Mesopotamia not only Theology was studied but Science and Philosophy also were cultivated. In Philosophy Aristotle was still ‘the master of those who know’, and especially his logical works as interpreted by the Neoplatonic commentators were studied intensively. But also many Neoplatonic and Neopythagorean writings were still known, and also, very probably, some of the old Stoic concepts and problems were still alive and discussed.

The great period of translation of Greek into Arabic, mostly through the intermediary of Christian Syrians, was between the years 750 and 850, but already before that time there was an impact of Greek ideas on Muslim theology. The first speculative theologians in Islam are called Mu'tazilites (from about A. D. 723), an exact translation of the Greek word συζητήταικοί (the general name for speculative theologians is Mutakallimun, διαλεκτικοί, dialecticians, a name often given in later Greek philosophy to the Stoics). Although they form rather a heterogeneous group of thinkers whose theories are syncretistic, that is taken from different Greek sources with a preponderance of Stoic ideas, they have certain points in common, principally their theory, taken from the Stoics, of the rationality of religion (which is for them identical with Islam), of a lumen naturale which burns in the heart of every man, and the optimistic view of a rational God who has created the best of all possible worlds for the greatest good of man who occupies the central place in the universe. They touch upon certain difficult problems that were perceived by the Greeks. The paradoxes of Zeno concerning movement and the infinite divisibility of space and time hold their attention, and the subtle problem of the status of the nonexistent, a problem long neglected in modern philosophy, but revived by the school of Brentano, especially by Meinong, which caused an endless controversy amongst the Stoics, is also much debated by them.

A later generation of theologians, the Ash'arites, named after Al Ash'ari, born A. D. 873, are forced by the weight of evidence to admit a certain irrationality in theological concepts, and their philosophical speculations, largely based on Stoicism, are strongly mixed with Sceptical theories. They hold the middle way between the traditionalists who want to forbid all reasoning on religious matters and those who affirm that reason unaided by revelation is capable of attaining religious truths. Since Ghazali finds his attack against the philosophers on Ash'arite principles, we may consider for a moment some of their theories. The difference between the Ash'arite and Mu'tazilite conceptions of God cannot be better expressed than by the following passage which is found twice in Ghazali (in his Golden Means of Dogmatics and his Vivification of Theology) and to which by tradition is ascribed the breach between Al Ash'ari and the Mu'tazilites.

‘Let us imagine a child and a grown-up in Heaven who both died in the True Faith, but the grown-up has a higher place than the child. And the child will ask God, “Why did you give that man a higher place?” And God will answer, “He has done many good works.” Then the child will say, “Why did you let me die so soon so that I was prevented from doing good?” God will answer, “I knew that you would grow up as a sinner, therefore it was better that you should die a child.” Then a cry goes up from the damned in the depths of Hell, “Why, O Lord, did you not let us die before we became sinners?”’

Ghazali adds to this: ‘the imponderable decisions of God cannot be weighed by the scales of reason and Mu’tazilism’.

According to the Ash'arites, therefore, right and wrong are human concepts and cannot be applied to God. ‘Cui mali nihil est nec esse potest quid huic opus est dilectu bonorum et malorum?’ is the argument of the Sceptic Carneades expressed by Cicero (De natura deorum, iii. 15. 38). It is a dangerous theory for the theologians, because it severs the moral relationship between God and man and therefore it cannot be and is not consistently applied by the Ash'arites and Ghazali.

The Ash'arites have taken over from the Stoics their epistemology, their sensationalism, their nominalism, their materialism. Some details of this epistemology are given by Ghazali in his autobiography: the clearness of representations is the criterion for their truth; the soul at birth is a blank on which the sensations are imprinted; at the seventh year of a man’s life he acquires the rational knowledge of right and wrong. Stoic influence on Islamic theology is overwhelming.
Stoic origin, for instance, are the division of the acts of man into five classes; the importance placed on the motive of an act when judging its moral character; the theory of the two categories of substance and accident (the two other categories, condition and relation, are not considered by the Muslim theologians to pertain to reality, since they are subjective); above all, the fatalism and determinism in Islam which is often regarded as a feature of the Oriental soul. In the Qur’an, however, there is no definite theory about free will. Muhammad was not a philosopher. The definition of will in man given by the Ash’arites, as the instrument of unalterable fate and the unalterable law of God, is Stoic both in idea and expression. (I have discussed several other theories in my notes.) Sometimes, however, the theologians prefer to the Stoic view the view of their adversaries. For instance, concerning the discussion between Neoplatonism and Stoicism whether there is a moral obligation resting on God and man relative to animals, Islam answers with the Neoplatonists in the affirmative (Spinoza, that Stoic Cartesian, will give, in his Ethica, the negative Stoic answer).

The culmination of the philosophy of Islam was in the tenth and eleventh centuries. This was the age also of the great theologians. It was with Greek ideas, taken in part from Stoics and Sceptics, that the theologians tried to refute the ideas of the philosophers. The philosophers themselves were followers of Aristotle as seen through the eyes of his Neoplatonic commentators. This Neoplatonic interpretation of Aristotle, although it gives a mystical character to his philosophy which is alien to it, has a certain justification in the fact that there are in his philosophy many elements of the theory of his master Plato, which lend themselves to a Neoplatonic conception. Plotinus regarded himself as nothing but the commentator of Plato and Aristotle, and in his school the identity of view of these two great masters was affirmed. In the struggle in Islam between Philosophy and Theology, Philosophy was defeated, and the final blow to the philosophers was given in Ghazali’s attack on Philosophy which in substance is incorporated in Averroës’ book and which he tries to refute.

Ghazali, who was born in the middle of the eleventh century, is one of the most remarkable and at the same time most enigmatic figures in Islam. Like St. Augustine, with whom he is often compared, he has told us in his autobiography how he had to pass through a period of despair and scepticism until God, not through demonstration but by the light of His grace, had given him peace and certitude. This divine light, says Ghazali, is the basis of most of our knowledge and, he adds, profoundly, one cannot find proofs for the premisses of knowledge; the premisses are there and one looks for the reasons, but they cannot be found. Certitude is reached, he says, not through scholastic reasoning, not through philosophy, but through mystical illumination and the mystical way of life. Still Ghazali is not only a mystic, he is a great dogmatist and moralist. He is regarded as Islam’s greatest theologian and, through some of his books, as a defender of Orthodoxy. It is generally believed that the Tahafut, the book in which he criticizes Philosophy, was written in the period of his doubts. The book, however, is a Defence of Faith, and though it is more negative than positive, for it aims to destroy and not to construct, it is based on the theories of his immediate predecessors, many of whose arguments he reproduces. Besides, he promises in this book to give in another book the correct dogmatic answers. The treatise to which he seems to refer does not contain anything but the old theological articles of faith and the Ash‘arite arguments and solutions. But we should not look for consistency in Ghazali; necessarily his mysticism comes into conflict with his dogmatism and he himself has been strongly influenced by the philosophers, especially by Avicenna, and in many works he comes very near to the Neoplatonic theories which he criticizes. On the whole it would seem to me that Ghazali in his attack on the philosophers has taken from the vast arsenal of Ash‘arite dialectical arguments those appropriate to the special point under discussion, regardless of whether they are destructive also of some of the views he holds.

Averroës was the last great philosopher in Islam in the twelfth century, and is the most scholarly and scrupulous commentator of Aristotle. He is far better known in Europe than in the Orient, where few of his works are still in existence and where he had no influence, he being the last great philosopher of his culture. Renan, who wrote a big book about him, Averroës et l’Averro’asme, had never seen a line of Arabic by him. Lately some of his works have been edited in Arabic, for instance his Tahafut al Tahafut, in a most exemplary manner. Averroës’ influence on European thought during the Middle Ages and the Renaissance has been immense.

The name of Ghazali’s book in which he attacks the philosophers is Tahafut al Falasifa, which has been translated by the medieval Latin translator as Destructio Philosophorum. The name of Averroës’ book is Tahafut al Tahafut, which is rendered as Destructio Destructionis (or destructionum). This
rendering is surely not exact. The word ‘Tahafut’ has been translated by modern scholars in different ways, and the title of Ghazali’s book has been given as the breakdown, the disintegration, or the incoherence, of the philosophers. The exact title of Averroës’ book would be The Incoherence of the Incoherence.

In the Revue des Deux Mondes there was an article published in 1895 by Ferdinand Brunetiere, ‘La Banqueroute de la Science’, in which he tried to show that the solutions by science, and especially by biology, of fundamental problems, solutions which were in opposition to the dogmas taught by the Church, were primitive and unreasonable. Science had promised us to eliminate mystery, but, Brunetiere said, not only had it not removed it but we saw clearly that it would never do so. Science had been able neither to solve, nor even to pose, the questions that mattered: those that touched the origin of man, the laws of his conduct, his future destiny. What Brunetiere tried to do, to defend Faith by showing up the audacity of Science in its attempt to solve ultimate problems, is exactly the same as Ghazali tried to do in relation to the pretensions of the philosophers of his time who, having based themselves on reason alone, tried to solve all the problems concerning God and the world. Therefore a suitable title for his book might perhaps be ‘The Bankruptcy of Philosophy’.

In the introduction to his book Ghazali says that a group of people hearing the famous names Socrates, Hippocrates, Plato, and Aristotle, and knowing what they had attained in such sciences as Geometry, Logic, and Physics, have left the religion of their fathers in which they were brought up to follow the philosophers. The theories of the philosophers are many, but Ghazali will attack only one, the greatest, Aristotle; Aristotle, of whom it is said that he refuted all his predecessors, even Plato, excusing himself by saying ‘amicus Plato, amica veritas, sed magis amica veritas’. I may add that this well-known saying, which is a variant of a passage in Plato’s Phaedo and in Aristotle’s Nicomachean Ethics, is found in this form first in Arabic. One of the first European authors who has it in this form is Cervantes (Don Quijote, ii, c. 52). I quote this saying—Ghazali adds—to show that there is no surety and evidence in Philosophy. According to Ghazali, the philosophers claim for their metaphysical proofs the same evidence as is found in Mathematics and Logic. But all Philosophy is based on supposition and opinion. If Metaphysics had the same evidence as Mathematics all philosophers would agree just as well in Philosophy as in Mathematics. According to him the translators of Aristotle have often misunderstood or changed the meaning and the different texts have caused different controversies. Ghazali considers Farabi and Avicenna to be the best commentators on Aristotle in Islam, and it is their theories that he will attack.

Before entering into the heart of the matter I will say a few words about Ghazali’s remark that Metaphysics, although it claims to follow the same method as Mathematics, does not attain the same degree of evidence. Neither Aristotle nor his commentators ever asked the question whether there is any difference between the methods of Mathematics and Metaphysics (it is a significant fact that most examples of proof in the Posterior Analytics are taken from Mathematics) and why the conclusions reached by Metaphysics seem so much less convincing than those reached by Mathematics. It would seem that Metaphysics, being the basis of all knowledge and having as its subject the ultimate principles of things, should possess, according to Aristotle, the highest evidence and that God, as being the highest principle, should stand at the beginning of the system, as in Spinoza. In fact, Aristotle could not have sought God if he had not found Him. For Aristotle all necessary reasoning is deductive and exclusively based on syllogism. Reasoning—he says—and I think this is a profound and true remark—cannot go on indefinitely. You cannot go on asking for reasons infinitely, nor can you reason about a subject which is not known to you. Reason must come to a stop. There must be first principles which are immediately evident. And indeed Aristotle acknowledges their existence. When we ask, however, what these first principles are, he does not give us any answer but only points out the Laws of Thought as such. But from the Laws of Thought nothing can be deduced, as Aristotle acknowledges himself. As a matter of fact Aristotle is quite unaware of the assumption on which his system is based. He is what philosophers are wont to call nowadays a naïve realist. He believes that the world which we perceive and think about with all it contains has a reality independent of our perceptions or our thoughts. But this view seems so natural to him that he is not aware that it could be doubted or that any reason might be asked for it. Now I, for my part, believe that the objectivity of a common world in which we all live and die is the necessary assumption of all reasoning and thought. I believe indeed, with Aristotle, that there are primary assumptions which cannot be deduced from other principles. All reasoning assumes the existence of an objective truth which is sought and
therefore is assumed to have an independent reality of its own. Every thinking person is conscious of his own identity and the identity of his fellow beings from whom he accepts language and thoughts and to whom he can communicate his own ideas and emotions. Besides, all conceptual thought implies universality, i.e. belief in law and in objective necessity. I can only infer from Socrates being a man that he is mortal when I have assumed that the same thing (in this case man in so far as he is man) in the same conditions will always necessarily behave in the same way.

In his book Ghazali attacks the philosophers on twenty points. Except for the last two points which are only slightly touched by Averroës, Averroës follows point for point the arguments Ghazali uses and tries to refute them. Ghazali’s book is badly constructed, it is unsystematic and repetitive. If Ghazali had proceeded systematically he would have attacked first the philosophical basis of the system of the philosophers-namely their proof for the existence of God, since from God, the Highest Principle, everything else is deduced. But the first problem Ghazali mentions is the philosophers’ proof for the eternity of the world. This is the problem which Ghazali considers to be the most important and to which he allots the greatest space, almost a quarter of his book. He starts by saying rather arbitrarily that the philosophers have four arguments, but, in discussing them, he mixes them up and the whole discussion is complicated by the fact that he gives the philosophical arguments and theological counter arguments in such an involved way that the trend is sometimes hard to follow. He says, for instance, page 3, that to the first arguments of the philosophers there are two objections. The first objection he gives on this page, but the second, after long controversy between the philosophers and theologians, on page 32. I will not follow here Ghazali and Averroës point for point in their discussions but will give rather the substance of their principal arguments (for a detailed discussion I refer to my notes).

The theory of the eternity of the world is an Aristotelian one. Aristotle was, as he says himself, the first thinker who affirmed that the world in which we live, the universe as an orderly whole, a cosmos, is eternal. All the philosophers before him believed that the world had come into being either from some primitive matter or after a number of other worlds. At the same time Aristotle believes in the finitude of causes. For him it is impossible that movement should have started or can continue by itself. There must be a principle from which all movement derives. Movement, however, by itself is eternal. It seems to me that this whole conception is untenable. If the world is eternal there will be an infinite series of causes and an infinite series of movers; there will be an infinite series, for instance, of fathers and sons, of birds and eggs (the example of the bird and egg is first mentioned in ‘Censorinus, De die natali, where he discusses the Peripatetic theory of the eternity of the world), and we will never reach a first mover or cause, a first father or a first bird. Aristotle, in fact, defends the two opposite theses of Kant’s first antinomy. He holds at the same time that time and movement are infinite and that every causal series must be finite. The contradiction in Aristotle is still further accentuated in the Muslim philosophers by the fact that they see in God, not only as Aristotle did, the First Mover of the movement of the universe, but that they regard Him, under the influence of the Plotinian theory of emanation, as the Creator of the universe from whom the world emanates eternally. However, can the relation between two existing entities qua existents be regarded as a causal one? Can there be a causal relation between an eternally unchangeable God and an eternally revolving and changing world, and is it sense to speak of a creation of that which exists eternally? Besides, if the relation between the eternal God and the eternal movement of the world could be regarded as a causal relation, no prior movement could be considered the cause of a posterior movement, and sequences such as the eternal sequence of fathers and sons would not form a causal series. God would not be a first cause but the Only Cause of everything. It is the contradiction in the idea of an eternal creation which forms the chief argument of Ghazali in this book. In a later chapter, for instance, when he refutes Avicenna’s proof for God based on the Aristotelian concepts ‘necessary by itself’, i.e. logical necessity, and ‘necessary through another’, i.e. ontological necessity, in which there is the usual Aristotelian confusion of the logical with the ontological, Ghazali’s long argument can be reduced to the assertion that once the possibility of an infinite series of causes is admitted, there is no sense in positing a first cause.

The first argument is as follows. If the world had been created, there must have been something determining its existence at the moment it was created, for otherwise it would have remained in the state of pure possibility it was in before. But if there was something determining its existence, this determinant must have been determined by another determinant and so on ad infinitum, or we must
accept an eternal God in whom eternally new determinations may arise. But there cannot be any new determinations in an eternal God.

The argument in this form is found in Avicenna, but its elements are Aristotelian. In Cicero’s *Academies* we have a fragment of one of Aristotle’s earlier and more popular writings, the lost dialogue *De philosophia*, in which he says that it is impossible that the world could ever have been generated. For how could there have been a new decision, that is a new decision in the mind of God, for such a magnificent work? St. Augustine knows this argument from Cicero and he too denies that God could have a *novum consilium*. St. Augustine is well aware of the difficulty, and he says in his *De civilate dei* that God has always existed, that after a certain time, without having changed His will, He created man, whom He had not wanted to create before, this is indeed a fact too profound for us. It also belongs to Aristotle’s philosophy that in all change there is a potentiality and all potentiality needs an actualizer which exists already. In the form this argument has in Avicenna it is, however, taken from a book by a late Greek Christian commentator of Aristotle, John Philoponus, *De aeternitate mundi*, which was directed against a book by the great Neoplatonist Proclus who had given eighteen arguments to prove the eternity of the world. Plato himself believed in the temporal creation of the world not by God Himself but by a demiurge. But later followers of Plato differed from him on this point. Amongst the post-Aristotelian schools only the Stoics assumed a periodical generation and destruction of the world. Theophrastus had already tried to refute some of the Stoic arguments for this view, and it may well be that John Philoponus made use of some Stoic sources for his defence of the temporality of the world.

The book by Proclus is lost, but John Philoponus, who as a Christian believes in the creation of the world, gives, before refuting them, the arguments given by Proclus. The book by Philoponus was translated into Arabic and many of its arguments are reproduced in the Muslim controversies about the problem (arguments for the temporal creation of the world were also given by Philoponus in a work against Aristotle’s theory of the eternity of the world, arguments which are known to us through their quotation and refutation by Simplicius in his commentary on *Physics* viii; one of these arguments by Philoponus was well known to the Arabs and is also reproduced by Ghazali, see note 3. 3). The argument I have mentioned is the third as given by Proclus. Philoponus’ book is extremely important for all medieval philosophy, but it has never been translated into a modern language and has never been properly studied. On the whole the importance of the commentators of Aristotle for Arabic and medieval philosophy in general has not yet been sufficiently acknowledged.

To this argument Ghazali gives the following answer, which has become the classic reply for this difficulty and which has been taken from Philoponus. One must distinguish, says Philoponus, between God’s eternally willing something and the eternity of the object of His Will, or, as St. Thomas will say later, ‘Deus voluit ab aeterno mundus esset sed non ut ab aeterno esset’. God willed, for instance, that Socrates should be born before Plato and He willed this from eternity, so that when it was time for Plato to be born it happened. It is not difficult for Averroës to refute this argument. In willing and doing something there is more than just the decision that you will do it. You can take the decision to get up tomorrow, but the actual willing to get up can be done only at the moment you do it, and there can be no delay between the cause and the effect. There must be added to the decision to get up the impulse of the will to get up. So in God there would have to be a new impulse, and it is just this newness that has to be denied. But, says Averroës, the whole basis of this argument is wrong for it assumes in God a will like a human will. Desire and will can be understood only in a being that has a need; for the Perfect Being there can be no need, there can be no choice, for when He acts He will necessarily do the best. Will in God must have another meaning than human will.

Averroës therefore does not explicitly deny that God has a will, but will should not be taken in its human sense. He has much the same conception as Plotinus, who denies that God has the power to do one of two contraries (for God will necessarily always choose the best, which implies that God necessarily will always do the best, but this in fact annuls the ideas of choice and will), and who regards the world as produced by natural necessity. Aristotle also held that for the Perfect Being no voluntary action is possible, and he regards God as in an eternal blissful state of self-contemplation. This would be a consequence of His Perfection which, for Averroës at least, involves His Omniscience. For the Perfect the drama of life is ended: nothing can be done any more, no decision can be taken any more, for decisions belong to the condition of man to whom both knowledge and ignorance are given and who can have an hypothetical knowledge of the future, knowing that on his
decisions the future may depend and to whom a sure knowledge of the future is denied. But an Omniscient Being can neither act nor decide; for Him the future is irremediable like the past and cannot be changed any more by His decisions or actions. Paradoxically the Omnipotent is impotent. This notion of God as a Self-Contemplating Being, however, constitutes one of the many profound contradictions in Aristotle’s system. And this profound contradiction is also found in all the works of Aristotle’s commentators. One of Aristotle’s proofs for the existence of God—and according to a recent pronouncement of the Pope, the most stringent—is the one based on movement. There cannot be an infinite series of movers; there must be a Prime Agent, a Prime Mover, God, the originator of all change and action in the universe. According to the conception of God as a Self-Contemplating Being, however, the love for God is the motive for the circular motion of Heaven. God is not the ultimate Agent, God is the ultimate Aim of desire which inspires the Heavens to action. It is Heaven which moves itself and circles round out of love for God. And in this case it is God who is passive; the impelling force, the efficient cause, the spring of all action lies in the world, lies in the souls of the stars.

Let us now return to Ghazali. We have seen that his first argument is not very convincing, but he now gives us another argument which the Muslim theologians have taken from John Philoponus and which has more strength. It runs: if you assume the world to have no beginning in time, at any moment which we can imagine an infinite series must have been ended. To give an example, every one of us is the effect of an infinite series of causes; indeed, man is the finite junction of an infinite past and an infinite future, the effect of an infinite series of causes, the cause of an infinite series of effects. But an infinite series cannot be traversed. If you stand near the bed of a river waiting for the water to arrive from an infinitely distant source you will never see it arriving, for an infinite distance cannot be passed. This is the argument given by Kant in the thesis of his first antimony. The curious fact is that the wording in Kant is almost identical with that of John Philoponus.

The answers Averroës gives are certainly not convincing. He repeats the Aristotelian dictum that what has no beginning has no end and that therefore there is never an end of time, and one can never say that at any moment an infinite time is ended: an infinite time is never ended. But this is begging the question and is surely not true, for there are certainly finite times. He denies that an infinite time involves an infinite causal series and the negation of a First Cause. The series involved is but a temporal sequence, causal by accident, since it is God who is its essential cause. Averroës also bases his answer on the Aristotelian theory that in time there is only a succession. A simultaneous infinite whole is denied by Aristotle and therefore, according to Aristotle, the world must be limited in space; but in time, according to him, there is never a whole, since the past is no longer existent and the future not yet.

But the philosophers have a convincing argument for the eternity of the world. Suppose the world had a beginning, then before the world existed there was empty time; but in an empty time, in pure emptiness, there cannot be a motive for a beginning and there could be nothing that could decide God to start His creation. This is Kant’s antithesis of his first antimony. It is very old and is given by Aristotle, but it is already found in the pre-Socratic philosopher Parmenides. Ghazali’s answer is that God’s will is completely undetermined. His will does not depend on distinctions in outside things, but He creates the distinctions Himself. The idea of God’s creative will is of Stoic origin. According to the Neoplatonic conception God’s knowledge is creative. We know because things are; things are because God knows them. This idea of the creative knowledge of God has a very great diffusion in philosophy (just as our bodies live by the eternal spark of life transmitted to us by our ancestors, so we rekindle in our minds the thoughts of those who are no more); it is found, for instance, in St. Augustine, Thomas Aquinas, Spinoza, and Kant—who calls it intellektuelle Anschauung, intellectual intuition, and it is also used by the Muslim philosophers when it suits them. Against Ghazali’s conception, however, Averroës has the following argument: If God creates the world arbitrarily, if His Will establishes the distinctions without being determined by any reason, neither wisdom nor goodness can be attributed to Him. We have here a difficulty the Greeks had seen already. Either God is beyond the laws of thought and of morals and then He is neither good nor wise, or He Himself stands under their dominion and then He is not omnipotent.

Another argument for the eternity of the world is based on the eternity of time: God cannot have a priority to time, as the theologians affirm, because priority implies time and time implies movement. For the philosophers God’s priority to the world consists solely in His being its simultaneous cause.
Both parties, however, seem to hold that God’s existence does not imply time, since He exists in timeless eternity. But in this case, what neither of the parties has seen, no causal relation between God and the world can exist at all, since all causation implies a simultaneous time.

We come now to the most important argument which shows the basic difference between the philosophical and theological systems. For Aristotle the world cannot have come to be because there is no absolute becoming. Everything that becomes comes from something. And, as a matter of fact, we all believe this. We all believe more or less unconsciously (we are not fully aware of our basic principles: a basement is always obscure) in the dictum *rien ne se crée, rien ne se perd*. We believe that everything that comes to be is but a development, an evolution, without being too clear about the meaning of these words (evolution means literally ‘unrolling’, and Cicero says that the procession of events out of time is like the uncoiling of a rope—*quasi rudentis explicatio*), and we believe that the plant lies in the seed, the future in the present. For example: when a child is born we believe it to have certain dispositions; it may have a disposition to become a musician, and when all the conditions are favourable it will become a musician. Now, according to Aristotle, becoming is nothing but the actualization of a potentiality, that is the becoming actual of a disposition. However, there is a difficulty here. It belongs to one of the little ironies of the history of philosophy that Aristotle’s philosophy is based on a concept, i.e. potentiality, that has been excluded by a law that he was the first to express consciously. For Aristotle is the first to have stated as the supreme law of thought (or is it a law of reality?) that there is no intermediary between being and non-being. But the potential, i.e. the objective possible, is such an intermediary; it is namely something which is, still is not yet. Already the Eleatics had declared that there is no becoming, either a thing is or it is not. If it is, it need not become. If it is not-out of nothing nothing becomes. Besides, there is another difficulty which the Megarians have shown.

You say that your child has a disposition to become a musician, that he can become a musician, but if he dies as a child, or when conditions are unfavourable, he cannot become a musician. He can only become one when all the conditions for his being a musician are fulfilled. But in that case it is not possibly that he will be a musician, necessarily he will be one. There is in fact no possibility of his being a musician before he actually is one. There is therefore no potentiality in nature and no becoming of things out of potencies. Things are or are not. This Megarian denial of potentiality has been taken over by the Ash’arites, and Ghazali in this book is on the whole, although not consistently, in agreement with them. I myself regard this problem as one of the cruxes of philosophy. The Ash’arites and Ghazali believed, as the Megarians did, that things do not become and that the future does not lie in the present; every event that occurs is new and unconnected with its predecessor. The theologians believed that the world is not an independent universe, a self-subsistent system, that develops by itself, has its own laws, and can be understood by itself. They transferred the mystery of becoming to the mystery of God, who is the cause of all change in the world, and who at every moment creates the world anew. Things are or are not. God creates them and annihilates them, but they do not become out of each other, there is no passage between being and non-being. Nor is there movement, since a thing that moves is neither here nor there, since it moves—what we call movement is *being* at rest at different space-atoms at different time-atoms. It is the denial of potentiality, possibility *in rerum natura*, that Ghazali uses to refute the Aristotelian idea of an eternal matter in which the potentialities are found of everything that can or will happen. For, according to Aristotle, matter must be eternal and cannot have become, since it is, itself, the condition for all becoming.

It maybe mentioned here that the modern static theory of movement is akin to the Megarian-Ash’arite doctrine of the denial of movement and becoming. Bertrand Russell, for instance, although he does not accept the Megarian atomic conception, but holds with Aristotle that movement and rest take place in time, not in the instant, defines movement as *being* at different places at different times. At the same time, although he rejects the Megarian conception of ‘jumps’, he affirms that the moving body always passes from one position to another by gradual transition. But ‘passing’ implies, just as much as ‘jumping’, something more than mere being, namely, the movement which both theories deny and the identity of the moving body.

On the idea of possibility another argument for the eternity of the world is based. It is affirmed that if the world had been created an infinite number of possibilities of its creation, that is, an eternal duration of its possibility, would have preceded it. But nothing possible can be eternal, since everything possible must be realized. The idea that everything possible has to be realized is found in...
Aristotle himself, who says that if there could be an eternal possible that were not realized, it would be impossible, not possible, since the impossible is that which will never be realized. Aristotle does not see that this definition is contrary to the basic idea of his own philosophy—the reality of a possibility which may or may not become real—and that by declaring that the possible will have to happen he reduces it to a necessity, and by admitting that everything that happens had to happen he denies that the possibility of its not happening could precede it, i.e., he accepts, in fact, the Megarian conception of possibility which he himself had tried to refute. Averroës, who agrees with his master on this point, is not aware either of the implication of the definition. On the other hand, the Ash'arites, notwithstanding their denial of potentiality, maintain that for God everything is possible, a theory which implies objective possibility (the same inconsistency was committed by the Stoics).

Both philosophers and theologians, indeed, hold about this difficult problem contradictory theories, and it is therefore not astonishing that Ghazali's and Averroës' discussion about it is full of confusion (for the details I refer to my notes).

In the second chapter, Ghazali treats the problem of the incorruptibility of the world. As Ghazali says himself; the problem of the incorruptibility of the world is essentially the same as that of its being uncreated and the same arguments can be brought forward. Still, there is less opposition amongst the theologians about its incorruptibility than about its being uncreated. Some of the Mu'tazilites argued, just as Thomas Aquinas was to do later, that we can only know through the Divine Law that this world of ours will end and there is no rational proof for its annihilation. Just as a series of numbers needs a first term but no final term, the beginning of the world does not imply its end. However, the orthodox view is that the annihilation of the world, including Heaven and Hell, is in God's power, although this will not happen. Still, in the corruptibility of the world there is a new difficulty for the theologians. If God destroys the world, He causes 'nothingness', that is, His act is related to 'nothing'. But can an act be related to 'nothing'? The question as it is posed seems to rest on a confusion between action and effect but its deeper sense would be to establish the nature of God's action and the process by which His creative and annihilating power exercises itself. As there cannot be any analogy with the physical process through which our human will performs its function, the mystery of His creative and annihilating action cannot be solved and the naive answers the theologians give satisfy neither Averroës nor Ghazali himself. Averroës argues that there is no essential difference between production and destruction and, in agreement with Aristotle, he affirms that there are three principles for them: form, matter, and privation. When a thing becomes, its form arises and its privation disappears; when it is destroyed, its privation arises and its form disappears, but the substratum of this process, matter, remains eternally. I have criticized this theory in my notes and will only mention here that for Aristotle and Averroës this process of production and destruction is eternal, circular, and reversible. Things, however, do not revolve in an eternal cycle, nor is there an eternal return as the Stoics and Nietzsche held. Inexorably the past is gone. Every 'now' is new. Every flower in the field has never been, the up-torn trees are not rooted again. 'Thou'll come no more, Never, never, never, never, never, never!' Besides, Averroës, holding as he does that the world is eternally produced out of nothing, is inconsistent in regarding with Aristotle production and destruction as correlatives.

In the third chapter, Ghazali maintains that the terms acting and agent are falsely applied to God by the philosophers. Acting, according to him, can be said only of a person having will and choice. When you say that fire burns, there is here a causal relation, if you like, but this implies nothing but a sequence in time, just as Hume will affirm later. So when the philosophers say that God's acting is like the fire's burning or the sun's heating, since God acts by natural necessity, they deny, according to Ghazali, His action altogether. Real causation can only be affirmed of a willing conscious being. The interesting point in this discussion is that, according to the Ash'arites and Ghazali, there is no causation in this world at all, there is only one extra-mundane cause which is God. Even our acts which depend on our will and choice are not, according to the Ash'arites, truly performed by ourselves. We are only the instruments, and the real agent is God. But if this is true, how can we say that action and causation depend on will and choice? How can we come to the idea of any causal action in God depending on His Will if we deny generally that there is a causal relation between will and action? The same contradiction is found in modern philosophy in Mach. Mach holds that to speak of causation or action in material things—so to say that fire burns—is a kind of fetishism or animism, i.e., that we project our will and our actions into physical lifeless things. However, at the same time he, as
a follower of Hume, says that causation, even in acts caused by will, is nothing but a temporal sequence of events. He denies causation even in voluntary actions. Therefore it would follow that the relation of willing and acting is not different from the relation of fire and burning and that there cannot be any question of fetishism or animism. According to such a theory there is no action at all in the universe but only a sequence of events.

Then, after a second argument by which Ghazali sets out to show that an eternal production and creation are contradictions in terms, since production and creation imply the generation of something after its non-existence, he directs a third argument against the Neoplatonic theory, held by the philosophers, of the emanation of the world from God’s absolute Oneness.

Plotinus’ conception of God is prompted by the problem of plurality and relation. All duality implies a relation, and every relation establishes a new unity which is not the simple addition of its terms (since every whole is more than its parts) and violates therefore the supreme law of thought that a thing is what it is and nothing else. Just as the line is more than its points, the stone more than its elements, the organism transcending its members, man, notwithstanding the plurality of his faculties, an identical personality, so the world is an organized well-ordered system surpassing the multitude of the unities it encloses. According to Plotinus the Force binding the plurality into unity and the plurality of unities into the all-containing unit of the Universe is the Archetype of unity, the ultimate, primordial Monad, God, unattainable in His supreme Simplicity even for thought. For all thought is relational, knitting together in the undefinable unity of a judgement a subject and a predicate. But in God’s absolute and highest Unity there is no plurality that can be joined, since all joining needs a superior joining unit. Thus God must be the One and the Lone, having no attribute, no genus, no species, no universal that He can share with any creatures of the world. Even existence can be only referred to Him when it expresses not an attribute, but His very Essence. But then there is no bridge leading from the stable stillness of His Unity to the changing and varied multiplicity of the world; all relation between Him and the world is severed. If the One is the truly rational, God’s rationality can be obtained only by regarding His relation to the world as irrational, and all statements about Him will be inconsistent with the initial thesis. And if God is unattainable for thought, the very affirmation of this will be self-contradictory.

Now, the philosophers in Islam hold with Plotinus that although absolutely positive statements are not admissible about God, the positive statements made by them can be all reduced to negative affirmations (with the sole exception, according to Averroës, of His possessing intellect) and to certain relative statements, for neither negations nor external relations add anything to His essence.

In this and several following chapters Ghazali attacks the philosophers from two sides: by showing up the inanity of the Plotinian conception of God as pure unity, and by exposing their inconsistency in attributing to Him definite qualities and regarding Him as the source of the world of variety and plurality.

The infinite variety and plurality of the world does not derive directly from God according to the philosophers in Islam, who combine Aristotle’s astronomical view of animate planets circling round in their spheres with the Neoplatonic theory of emanation, and introduce into the Aristotelian framework Proclus’ conception of a triadic process, but through a series of immaterial mediators. From God’s single act-for they with Aristotle regard God as the First Agent-only a single effect follows, but this single effect, the supramundane Intellect, develops in itself a threefoldness through which it can exercise a threefold action. Ghazali objects in a long discussion that if God’s eternal action is unique and constant, only one single effect in which no plurality can be admitted will follow (a similar objection can be directed against Aristotle, who cannot explain how the plurality and variety of transitory movements can follow from one single constant movement). The plurality of the world according to Ghazali cannot be explained through a series of mediators. Averroës, who sometimes does not seem very sure of the validity of mediate emanation, is rather evasive in his answer on this point.

In a series of rather intricate discussions which I have tried to elucidate in my notes, Ghazali endeavours to show that the proofs of the philosophers for God’s uniqueness, for their denial of His attributes, for their claims that nothing can share with Him His genus and species, that He is pure existence which stands in no relation to an essence, and that He is incorporeal, are all vain. The leading idea of the philosophers that all plurality needs a prior joining principle, Ghazali rejects, while Averroës defends it. Why-so Ghazali asks, for instance-since the essence in temporal things is
not the cause of their existence, should this not be the case in the Eternal? Or why should body, although it is composite according to the philosophers, not be the First Cause, especially as they assume an eternal body, since it is not impossible to suppose a compound without a composing principle? From the incorporeality of God, the First Principle, Avicenna had tried to infer, through the disjunction that everything is either matter or intellect, that He is intellect (since the philosophers in Islam hold with Aristotle and in opposition to Plotinus that God possesses self-consciousness). Ghazali does not admit this disjunction and, besides, argues with Plotinus that self-consciousness implies a subject and an object, and therefore would impede the philosophers’ thesis of God’s absolute unity.

The Muslim philosophers, following Aristotle’s Neoplatonic commentators, affirm that God’s self-knowledge implies His knowledge of all universals (a line of thought followed, for instance, by Thomas Aquinas and some moderns like Brentano). In man this knowledge forms a plurality, in God it is unified. Avicenna subscribes to the Qur’anic words that no particle in Heaven or Earth escapes God’s knowledge, but he holds, as Porphyry had done before, that God can know the particular things only in a universal way, whatever this means. Ghazali takes it to mean that God, according to Avicenna, must be ignorant of individuals, a most heretical theory. For Averroës God’s knowledge is neither universal nor particular, but transcending both, in a way unintelligible to the human mind.

One thing, however, God cannot know according to Avicenna (and he agrees here with Plato’s *Parmenides*) and that is the passing of time, for in the Eternal no relation is possible to the fleeting ‘now’. There are two aspects of time: the sequence of anteriority and posteriority which remains fixed for ever, and the eternal flow of the future through the present into the past. It will be eternally true that I was healthy before I sickened and God can know its eternal truth. But in God’s timeless eternity there can be no ‘now’ simultaneous with the trembling present in which we humans live and change and die, there is no ‘now’ in God’s eternity in which He can know that I am sickening now. In God’s eternal stillness the fleeting facts and truths of human experience can find no rest. Ghazali objects, erroneously, I think, that a change in the object of thought need not imply a change in the subject of consciousness.

In another chapter Ghazali refutes the philosophers’ proof that Heaven is animated. He does not deny its possibility, but declares that the arguments given are insufficient. He discusses also the view that the heavens move out of love for God and out of desire to assimilate themselves to Him, and he asks the pertinent question-already posed by Theophrastus in his *Metaphysics*, but which scandalizes Averroës by its prosaicness—why it is meritorious for them to circle round eternally and whether eternal rest would not be more appropriate for them in their desire to assimilate themselves to God’s eternal stability.

In the last chapter of this part Ghazali examines the philosophers’ symbolical interpretation of the Qur’anic entities ‘The Pen’ and ‘The Tablet’ and their theories about dreams and prophecy. It is interesting to note that, although he refutes them here, he largely adopts them in his own *Vivification of Theology*. [?]

In the last part of his book Ghazali treats the natural sciences. He enumerates them and declares that there is no objection to them according to religion except on four points. The first is that there exists a logical nexus between cause and effect; the second, the selfsubsistent spirituality of the soul; the third, the immortality of this subsistent soul; the fourth, the denial of bodily resurrection. The first, that there exists between cause and effect a logical necessity, has to be contested according to Ghazali, because by denying it the possibility of miracles can be maintained. The philosophers do not deny absolutely the possibility of miracles. Muhammad himself did not claim to perform any miracles and Hugo Grotius tried to prove the superiority of Christianity over Islam by saying ‘Mahumetis se missum ait non cum miraculis sed cum armis’. In later times, however, Muhammad’s followers ascribed to him the most fantastic miracles, for instance the cleavage of the moon and his ascension to Heaven. These extravagant miracles are not accepted by the philosophers. Their theory of the possibility of miracles is based on the Stoic-Neoplatonic theory of ‘Sympathia’, which is that all parts of the world are in intimate contact and related. In a little treatise of Plutarch it is shown how bodily phenomena are influenced by suggestion, by emotion and emotional states, and it is claimed by him, and later also by Plotinus, that the emotions one experiences cannot only influence one’s own body but also other bodies, and that one’s soul can exercise an influence on other bodies without the intermediary of any bodily action. The phenomena of telepathy, for instance the fascination which a
snake has on other animals, they explained in this way. Amulets and talismans can receive through psychological influences certain powers which can be realized later. This explanation of occult phenomena, which is found in Avicenna’s *Psychology*, a book translated in the Middle Ages, has been widely accepted (for instance, by Ghazali himself in his *Vivification of Theology*), and is found in Thomas Aquinas and most of the writers about the occult in the Renaissance, for instance Heinricus Cornelius Agrippa, Paracelsus, and Cardanus. It may be mentioned here that Avicenna gives as an example of the power of suggestion that a man will go calmly over a plank when it is on the ground, whereas he will hesitate if the plank be across an abyss. This famous example is found in Pascal’s *Pensées*, and the well-known modern healer, Coué, takes it as his chief proof for the power of suggestion. Pascal has taken it from Montaigne, Montaigne has borrowed it from his contemporary the great doctor Pietro Bairo, who himself has a lengthy quotation from the *Psychology* of Avicenna. Robert Burton in his *Anatomy of Melancholy* also mentions it. In the Middle Ages this example is found in Thomas Aquinas. Now the philosophers limit the possibility of miracles only to those that can be explained by the power of the mind over physical objects; for instance, they would regard it as possible that a prophet might cause rain to fall or an earthquake to take place, but they refuse to accept the more extravagant miracles I have mentioned as authentic.

The theologians, however, base their theory of miracles on a denial of natural law. The Megarian-Ash’arite denial of potentiality already implies the denial of natural law. According to this conception there is neither necessity nor possibility in rerum natura, they are or they are not, there is no nexus between the phenomena. But the Greek Sceptics also deny the rational relation between cause and effect, and it is this Greek Sceptical theory which the Ash’arites have copied, as we can see by their examples. The theory that there is no necessary relation between cause and effect is found, for instance, in Galen. Fire burns but there is, according to the Greek Sceptics, no necessary relation between fire and burning. Through seeing this happen many times we assume that it will happen also in the future, but there is no necessity, no absolute certainty. This Sceptical theory is quasi-identical with the theory of Hume and is based on the same assumptions, that all knowledge is given through sense-impression; and since the idea of causation cannot be derived from sense experience it is denied altogether. According to the theory of the theologians, God who creates and re-creates the universe continually follows a certain habit in His creation. But He can do anything He desires, everything is possible for Him except the logically impossible; therefore all logically possible miracles are allowed.

One might say that, for the theologians, all nature is miraculous and all miracles are natural. Averroës asks a good question: What is really meant by habit, is it a habit in man or in nature? I do not know how Hume would answer this question. For if causation is a habit in man, what makes it possible that such a habit can be formed? What is the objective counterpart of these habits? There is another question which has been asked by the Greek opponents of this theory, but which is not mentioned by Averroës: How many times must such a sequence be observed before such a habit can be formed? There is yet another question that might be asked: Since we cannot act before such a habit is formed, for action implies causation—what are we doing until then? What, even, is the meaning of ‘I act’ and ‘I do’? If there is nothing in the world but a sequence of events, the very word ‘activity’ will have no sense, and it would seem that we would be doomed to an eternal passivity. Averroës’ answer to this denial of natural law is that universals themselves imply already the idea of necessity and law. I think this answer is correct. When we speak, for instance, of wood or stone, we express by those words an hypothetical necessity, that is, on the potentialities it has.

I may remark here that it seems to me probable that Nicholas of Autrecourt, ‘the medieval Hume’, was influenced by Ghazali’s Ash’arite theories. He denies in the same way as Ghazali the logical connexion between cause and effect: ‘ex eo quod aliqua res est cognita esse, non potest evidenter evidencia reducta in primum principium vel in certitudinem primi principii inferri, quod alia res sit’ (cf. Lappe, ‘Nicolaus von Autrecourt’, *Beitr. z. Gesch. d. Phil. d. M.* B.vi, H.2, p. 11); he gives the same example of *ignis* and *stupa*, he seems to hold also the Ash’arite thesis of God as the sole cause of all action (cf. op. cit., p. 24), and he quotes in one place Ghazali’s Metaphysics (cf. N. of Autrecourt, ‘Exigit ordo executionis’, in *Mediaeval Studies*, vol. i, ed. by J. Reginald O’Donnell, Toronto, 1931, p. 208). Now Nicholas’s works were burnt during his lifetime in Paris in 1347, whereas the Latin translation of the *Tahafut al Tahafut* by Calo Calonymus was terminated in Arles in
The second point Ghazali wants to refute are the proofs for the substantiality and the spirituality of the soul as given by the philosophers. He himself does not affirm that the soul is material, and as a matter of fact he holds, in other books, the contrary opinion, but the Ash'arites largely adopted the Stoic materialism. The ten arguments of the philosophers for the spirituality of the soul derive all from arguments given by the Greeks. It would seem to me that Ghazali’s arguments for the soul’s materiality may be based on the Stoic answers (which have not come down to us) against the proofs of Aristotle and the later Platonists for the immateriality of the soul. There is in the whole discussion a certain confusion, partly based on the ambiguity of the word ‘soul’. The term ‘soul’ both in Greek and Arabic can also mean ‘life’. Plants and animals have a ‘soul’. However, it is not affirmed by Aristotle that life in plants and animals is a spiritual principle. ‘Soul’ is also used for the rational part, the thinking part, of our consciousness. It is only this thinking part, according to Aristotle, that is not related to or bound up with matter; sensation and imagination are localized in the body, and it is only part of our thinking soul that seems to possess eternity or to be immortal. Now, most of the ten arguments derive from Aristotle and mean only to prove that the thinking part of our soul is incorporeal. Still the Muslim philosophers affirm with Plato and Plotinus that the whole soul is spiritual and incorruptible, and that the soul is a substance independent of the body, although at the same time they adopt Aristotle’s physiological explanations of all the non-rational functions of the soul and accept Aristotle’s definition of the ‘soul’ as the first entelechy of an organic body. On the other hand, the Muslim philosophers do not admit the Platonic theory of the pre-existence of the soul. Aristotle’s conception of a material and transitory element in the soul and an immaterial and immortal element destroys all possibility of considering human personality as a unity. Although he reproaches Plato with regarding the human soul as a plurality, the same reproach can be applied to himself. Neither the Greek nor the Muslim philosophers have ever been able to uphold a theory that does justice to the individuality of the human personality. That it is my undefinable ego that perceives, represents, wills, and thinks, the mysterious fact of the uniqueness of my personality, has never been apprehended by them. It is true that there is in Aristotle’s psychology a faint conception of a functional theory of our conscious life, but he is unable to harmonize this with his psycho-physiological notions.

I have discussed in my notes the ten arguments and will mention here only two because of their importance. Ghazali gives one of these arguments in the following form: How can man’s identity be attributed to body with all its accidents? For bodies are continually in dissolution and nutrition replaces what is dissolved, so that when we see a child, after separation from its mother’s womb, fall ill a few times, become thin and then fat again, and grow up, we may safely say that after forty years no particle remains of what there was when its mother was delivered of it. Indeed, the child began its existence out of parts of the sperm alone, but nothing of the particles of the sperm remains in it; no, all this is dissolved and has changed into something else and then this body has become another. Still we say that the identical man remains and his notions remain with him from the beginning of his youth although all bodily parts have changed, and this shows that the soul has an existence outside the body and that the body is its organ. Now the first part of this argument, that all things are in a state of flux and that of the bodily life of man no part remains identical, is textually found in Montaigne’s *Apology of Raymond de Sebond*. Montaigne has taken it from Plutarch, and the Arabic philosophers may have borrowed it from the same source from which Plutarch has taken it. The argument of the philosophers that matter is evanescent, but the soul a stable identity, which is also given by the Christian philosopher Nemesius in his *De natura hominis* (a book translated into Arabic), who ascribes it to Ammonius Saccas and Numenius, is basically Platonic and Neoplatonic, and strangely enough, although he refutes it here, it is adduced by Ghazali himself in his *Vivification of Theology*. Socrates says in the Platonic dialogue *Cratylus*: ‘Can we truly say that there is knowledge, *Cratylus*, if all things are continually changing and nothing remains? For knowledge cannot continue unless it remains and keeps its identity. But if knowledge changes its very essence, it will lose at once its identity and there will be no knowledge.’ Plotinus (*Enn. iv. 7. 3*) argues that matter, in its continual changing, cannot explain the identity of the soul. And he says in a beautiful passage (*Enn. iv. 7. 10*) the idea of which Avicenna has copied:

‘One should contemplate the nature of everything in its purity, since what is added is ever an
obstacle to its knowledge. Contemplate therefore the soul in its abstraction or rather let him who makes this abstraction contemplate himself in this state and he will know that he is immortal when he will see in himself the purity of the intellect, for he will see his intellect contemplate nothing sensible, nothing mortal, but apprehending the eternal through the eternal.’

This passage bears some relation to Descartes’s dictum cogito ergo sum, but whereas Plotinus affirms the self-consciousness of a stable identity, Descartes states only that every thought has a subject, an ego. Neither the one, nor the other shows that this subject is my ego in the sense of my undefinable unique personality, my awareness who I am: that I am, for instance, John and not Peter, my consciousness of the continuity of my identity from birth to death, my knowledge that at the same time I am master and slave of an identical body, whatever the changes may be in that body, and that as long as I live I am a unique and an identical whole of body and soul. Plautus’ Sosia, who was not a philosopher, expresses himself (Amphitruo, line 447) in almost the same way as Descartes—sed quom cogito, equidem certo idem sum qui fui semper’—but the introduction of the words semper and idem renders the statement fallacious; from mere consciousness the lasting identity of my personality cannot be inferred.

Ghazali answers this point by saying that animals and plants also, notwithstanding that their matter is continually changing, preserve their identity, although nobody believes that this identity is based on a spiritual principle. Averroës regards this objection as justified.

The second argument is based on the theory of universals. Since thought apprehends universals which are not in a particular place and have no individuality, they cannot be material, since everything material is individual and is in space. Against this theory of universals Ghazali develops, under Stoic influence, his nominalistic theory which is probably the theory held by the Ash’arites in general. This theory is quasi-identical with Berkeley’s nominalistic conception and springs from the same assumption that thinking is nothing but the having of images. By a strange coincidence both Ghazali and Berkeley give the example of a hand: when we have an idea of a hand as a universal, what really happens is that we have a representation of a particular hand, since there are no universals. But this particular hand is capable of representing for us any possible hand, just as much a big black hand as a small white one. The fallacy of the theory lies, of course, in the word ‘representing’, which as a matter of fact assumes what it tended to deny, namely, that we can think of a hand in general which has neither a particular shape, nor a particular colour, nor is localized in space.

The next point Ghazali tries to refute is the argument of the philosophers for the immortality of the soul. According to the philosophers, the fact that it is a substance independent of a body and is immaterial shows that a corruption of the body cannot affect it. This, as a matter of fact, is a truism, since the meaning of substantiality and immateriality for the philosophers implies already the idea of eternity. On the other hand, if the soul is the form of the body, as is also affirmed by them, it can only exist with its matter and the mortality of its body would imply its own mortality, as Ghazali rightly points out. The Arabic philosophers through their combination of Platonism and Aristotelianism hold, indeed, at the same time three theories inconsistent with each other, about the relation of body and soul: that the soul is the form of the body, that the soul is a substance, subsistent by itself and immortal, and that the soul after death takes a pneumatic body (a theory already found in Porphyry). Besides, their denial of the Platonic idea of pre-existence of the soul vitiates their statement that the soul is a substance, subsistent by itself, that is, eternal, ungenerated, and incorruptible. Although Averroës in his whole book tries to come as near to the Aristotelian conception of the soul as possible, in this chapter he seems to adopt the eschatology of the late Greek authors. He allows to the souls of the dead a pneumatic body and believes that they exist somewhere in the sphere of the moon. He also accepts the theory of the Djinn, the equivalent of the Greek Daimones. What he rejects, and what the philosophers generally reject, is the resurrection of the flesh.

In his last chapter Averroës summarizes his views about religion. There are three possible views. A Sceptical view that religion is opium for the people, held by certain Greek rationalists; the view that religion expresses Absolute Truth; and the intermediate view, held by Averroës, that the religious conceptions are the symbols of a higher philosophical truth, symbols which have to be taken for reality itself by the non-philosophers. For the unphilosophical, however, they are binding, since the sanctity of the State depends on them.

When we have read the long discussions between the philosophers and theologians we may come to
the conclusion that it is sometimes more the formula than the essence of things which divides them. Both philosophers and theologians Aref that God creates or has created the world. For the philosophers, since the world is eternal, this creation is eternal. Is there, however, any sense in calling created what has been eternally? For the theologians God is the creator of everything including time, but does not the term ‘creation’ assume already the concept of time? Both the philosophers and theologians apply to God the theory that His will and knowledge differ from human will and knowledge in that they are creative principles and essentially beyond understanding; both admit that the Divine cannot be measured by the standards of man. But this, in fact, implies an avowal of our complete ignorance in face of the Mystery of God. Still, for both parties God is the supreme Artifex who in His wisdom has chosen the best of all possible worlds; for although the philosophers affirm also that God acts only by natural necessity, their system, like that of their predecessors, the Platonists, Peripatetics, and Stoics, is essentially teleological. As to the problem of possibility, both parties commit the same inconsistencies and hold sometimes that the world could, sometimes that it could not, have been different from what it is. Finally, both parties believe in God’s ultimate Unity.

And if one studies the other works of Ghazali the resemblance between him and the philosophers becomes still greater. For instance, he too believes in the spirituality of the soul, notwithstanding the arguments he gives against it in this book; he too sometimes regards religious concepts as the symbols of a higher philosophical or mystical truth, although he admits here only a literal interpretation. He too sometimes teaches the fundamental theory of the philosophers which he tries to refute so insistently in our book, the theory that from the one supreme Agent as the ultimate source through intermediaries all things derive; and he himself expresses this idea (in his Alchemy of Happiness and slightly differently in his Vivification of Theology) by the charming simile of an ant which seeing black tracings on a sheet of paper thinks that their cause is the pen, while it is the hand that moves the pen by the power of the will which derives from the heart, itself inspired by the spiritual agent, the cause of causes. The resemblances between Ghazali and Averroës, men belonging to the same culture, indeed, the greatest men in this culture, seem sometimes greater than their differences.

Emotionally the difference goes deep. Averroës is a philosopher and a proud believer in the possibility of reason to achieve a knowledge of ‘was das Innere der Welt zusammenhält’. He was not always too sure, he knew too much, and there is much wavering and hesitation in his ideas. Still, his faith in reason remains unshaken. Although he does not subscribe to the lofty words of his master that man because of the power of his intellect is a mortal God, he reproaches the theologians for having made God an immortal man. God, for him, is a dehumanized principle. But if God has to respond to the needs of man’s heart, can He be exempt from humanity? Ghazali is a mu’min, that is a believer, he is a Muslim, that is he accepts his heart submits to a truth his reason cannot establish, for his heart has reasons his reason does not know. His theology is the philosophy of the heart in which there is expressed man’s fear and loneliness and his feeling of dependence on an understanding and loving Being to whom he can cry out from the depths of his despair, and whose mercy is infinite. It is not so much after abstract truth that Ghazali strives; his search is for God, for the Pity behind the clouds.

IN THE NAME OF THE MERCIFUL AND COMPASSIONATE
GOD: AND AFTER PRAISE TO GOD AND BENEDICTION UPON ALL HIS MESSENGERS AND PROPHETS:

The aim of this book is to show the different degrees of assent and conviction attained by the assertions in The Incoherence of the Philosophers, and to prove that the greater part has not reached the degree of evidence and of truth.

THE FIRST DISCUSSION
Concerning the Eternity of the World

Ghazali, speaking of the philosophers’ proofs for the eternity of the world, says:
Let us restrict ourselves in this chapter to those proofs that make an impression on the mind.

This chapter contains four proofs.

---

THE FIRST PROOF

The philosophers say: It is impossible that the temporal should proceed from the absolutely Eternal. For it is clear if we assume the Eternal existing without, for instance, the world proceeding from Him, then, at a certain moment, the world beginning to proceed from Him—that it did not proceed before, because there was no determining principle for its existence, but its existence was pure possibility. When the world begins in time, a new determinant either does or does not arise. If it does not, the world will stay in the same state of pure possibility as before; if a new determinant does arise, the same question can be asked about this new determinant, why it determines now, and not before, and either we shall have an infinite regress or we shall arrive at a principle determining eternally.

I say: This argument is in the highest degree dialectical and does not reach the pitch of demonstrative proof. For its premisses are common notions, and common notions approach the equivocal, whereas demonstrative premisses are concerned with things proper to the same genus.

For the term ‘possible’ is used in an equivocal way of the possible that happens more often than not, of the possible that happens less often than not, and of the possible with equal chances of happening, and these three types of the possible do not seem to have the same need for a new determining principle. For the possible that happens more often than not is frequently believed to have its determining principle in itself, not outside, as is the case with the possible which has equal chances of happening and not happening. Further, the possible resides sometimes in the agent, i.e. the possibility of acting, and sometimes in the patient, i.e. the possibility of receiving, and it does not seem that the necessity for a determining principle is the same in both cases. For it is well known that the possible in the patient needs a new determinant from the outside; this can be perceived by the senses in artificial things and in many natural things too, although in regard to natural things there is a doubt, for in most natural things the principle of their change forms part of them. Therefore it is believed of many natural things that they move themselves, and it is by no means self-evident that everything that is moved has a mover and that there is nothing that moves itself.; But all this needs to be examined, and the old philosophers have therefore done so. As concerns the possible in the agent, however, in many cases it is believed that it can be actualized without an external principle, for the transition in the agent from inactivity to activity is often regarded as not being a change which requires a principle; e.g. the transition in the geometer from non-geometrizing to geometrizing, or in the teacher from non-teaching to teaching.

Further, those changes which are regarded as needing a principle of change can sometimes be changes in substance, sometimes in quality, or in quantity, or in place.

In addition, ‘eternal’ is predicated by many of the eternal-by-itself and the eternal-through-another. According to some, it is permissible to admit certain changes in the Eternal, for instance a new volition in the Eternal, according to the Karramites, and the possibility of generation and corruption which the ancients attribute to primary matter, although it is eternal. Equally, new concepts are admitted in the possible intellect although, according to most authors, it is eternal. But there are also changes which are inadmissible, especially according to certain ancients, though not according to others.

Then there is the agent who acts of his will and the agent which acts by nature, and the manner of actualization of the possible act is not the same for both agents, i.e. so far as the need for a new determinant is concerned. Further, is this division into two agents complete, or does demonstration lead to an agent which resembles neither the natural agent nor the voluntary agent of human experience?

All these are multifarious and difficult questions which need, each of them, a special examination, both in themselves and in regard to the opinions the ancients held about them. To treat what is in
reality a plurality of questions as one problem is one of the well known seven sophisms, and a mistake in one of these principles becomes a great error by the end of the examination of reality.

Ghazali says:

There are two objections to this. The first objection is to say: why do you deny the theory of those who say that the world has been created by an eternal will which has decreed its existence in the time in which it exists; that its non-existence lasts until the moment it ceases and that its existence begins from the moment it begins; that its existence was not willed before and therefore did not happen, and that at the exact moment it began it was willed by an eternal will and therefore began? What is the objection to this theory and what is absurd in it?

I say:

This argument is sophistical: although it is not allowable for him to admit the possibility of the actual effect being delayed after the actual cause, and in a voluntary agent, after the decision to act, he regards it as possible that the effect should be delayed after the will of the agent. It is possible that the effect should be delayed after the will of the agent, but its being delayed after the actual cause is impossible, and equally impossible is its being delayed after a voluntary agent’s decision to act. The difficulty is thus unchanged, for he must of necessity draw one of these two conclusions: either that the act of the agent does not imply in him a change which itself would need an external principle of change, or that there are changes which arise by themselves, without the necessity of an agent in whom they occur and who causes them, and that therefore there are changes possible in the Eternal without an agent who causes them. And his adversaries insist on these two very points: (1) that the act of the agent necessarily implies a change and that each change has a principle which causes it; (2) that the Eternal cannot change in any way. But all this is difficult to prove.

The Ash’arites are forced to assume either a first agent or a first act of this agent, for they cannot admit that the disposition of the agent, relative to the effect, when he acts is the same as his disposition, when he does not act. This implies therefore a new disposition or a new relation, and this necessarily either in the agent, or in the effect, or in both? But in this case, if we posit as a principle that for each new disposition there is an agent, this new disposition in the first agent will either need another agent, and then this first agent was not the first and was not on his own account sufficient for the act but needed another, or the agent of the disposition which is the condition of the agent’s act will be identical with the agent of the act. Then this act which we regarded as being the first act arising out of him will not be the first, but his act producing the disposition which is the condition of the effect will be anterior to the act producing the effect. This, you see, is a necessary consequence, unless one allows that new dispositions may arise in the agents without a cause. But this is absurd, unless one believes that there are things which happen at haphazard and by themselves, a theory of the old philosophers who denied the agent,; the falsehood of which is self-evident.

In Ghazali’s objection there is a confusion. For our expressions ‘eternal will’ and ‘temporal will’ are equivocal, indeed contrary. For the empirical will is a faculty which possesses the possibility of doing equally one of two contraries and then of receiving equally one of the two contraries willed. For the will is the desire of the agent towards action. When the agent acts, the desire ceases and the thing willed happens, and this desire and this act are equally related to both the contraries. But when one says: ‘There is a Wilier who wills eternally one of two contraries in Himself’, the definition of the will is abandoned, for they have transferred its nature from the possible to the necessary. If it is objected that in an eternal will the will does not cease through the presence of the object willed, for as an eternal will has no beginning there is no moment in it which is specially determined for the realization of the object willed, we answer: this is not obvious, unless we say that demonstrative proof leads to the existence of an agent endowed with a power which is neither voluntary nor natural, which, however, the Divine Law calls ‘will’, in the same way as demonstrative proof leads to middle terms between things which seemed at first sight to be contrary, without being really so, as when we speak of an existence which is neither inside nor outside the world.

Ghazali answers, on behalf of the philosophers:

The philosophers say: This is clearly impossible, for everything that happens is necessitated and has its cause, and as it is impossible that there should be an effect without a necessitating principle and a cause, so it is impossible that there should exist a cause of which the effect is delayed, when all the conditions of its necessitating, its
causes and elements are completely fulfilled. On the contrary, the existence of the effect, when the cause is realized with all its conditions, is necessary, and its delay is just as impossible as an effect without cause. Before the existence of the world there existed a Wilier, a will, and its relation to the thing willed. No new wilier arose, nor a new will, nor a new relation to the will-for all this is change; how then could a new object of will arise, and what prevented its arising before? The condition of the new production did not distinguish itself from the condition of the non-production in any way, in any mode, in any relation-on the contrary, everything remained as it was before. At one moment the object of will did not exist, everything remained as it was before, and then the object of will existed. Is not this a perfectly absurd theory?

I say:
This is perfectly clear, except for one who denies one of the premisses we have laid down previously. But Ghazali passes from this proof to an example based upon convention,’ and through this he confuses this defence of the philosophers.

Ghazali says:
This kind of impossibility is found not only in the necessary and essential cause and effect but also in the accidental and conventional. If a man pronounces the formula of divorce against his wife without the divorce becoming irrevocable immediately, one does not imagine that it will become so later. For he made the formula through convention and usage a cause of the judgement, and we do not believe that the effect can be delayed, except when the divorce depends on an ulterior event, e.g. on the arrival of tomorrow or on someone’s entering the house, for then the divorce does not take place at once, but only when tomorrow arrives or someone enters the house; in this case the man made the formula a cause only in conjunction with an ulterior event. But as this event, the coming of tomorrow and someone’s entering the house, is not yet actual, the effect is delayed until this future event is realized. The effect only takes place when a new event, i.e. entering the house or the arrival of tomorrow, has actually happened. Even if a man wanted to delay the effect after the formula, without making it dependent on an ulterior event, this would be regarded as impossible, although it is he himself who lays down the convention and fixes its modalities. If thus in conventional matters such a delay is incomprehensible and inadmissible, how can we admit it in essential, rational, and necessary causal relations? In respect of our conduct and our voluntary actions, there is a delay in actual volition only when there is some obstacle. When there is actual volition and actual power and the obstacles are eliminated, a delay in the object willed is inadmissible.; A delay in the object willed is imaginable only in decision, for decision is not sufficient for the existence of the act; the decision to write does not produce the writing, if it is not, as a new fact, accompanied by an act of volition, i.e. an impulse in the man which presents itself at the moment of the act. If there is thus an analogy between the eternal Will and our will to act, a delay of the object willed is inadmissible, unless through an obstacle, and an antecedent existence of the volition is equally inadmissible, for I cannot will to get up tomorrow except by way of decision. If, however, the eternal Will is analogous to our decision, it does not suffice to produce the thing decided upon, but the act of creation must be accompanied by a new act of volition, and this brings us again to the idea of a change. But then we have the same difficulty all over again. Why does this impulse or volition or will or whatever you choose to call it happen just now and not before? There remain, then, only these alternatives: either something happening without a cause, or an infinite regress. This is the upshot of the discussion: There is a cause the conditions of which are all completely fulfilled, but notwithstanding this the effect is delayed and is not realized during a period to the beginning of which imagination cannot attain and for which thousands of years would mean no diminution; then suddenly, without the addition of any new fact, and without the realization of any new condition, this effect comes into existence and is produced. And this is absurd.

I say:
This example of divorce based on convention seems to strengthen the argument of the philosophers,
but in reality it weakens it. For it enables the Ash’arites to say: In the same way as the actual divorce is delayed after the formula of divorce till the moment when the condition of someone’s entering the house, or any other, is fulfilled, so the realization of the world can be delayed after God’s act of creation until the condition is fulfilled on which this realization depends, i.e. the moment when God willed it. But conventional things do not behave like rational. The Literalists, comparing these conventional things to rational, say: This divorce is not binding and does not become effective through the realization of the condition which is posterior to the pronouncement of the divorce by the divorcer, since it would be a divorce which became effective without connexion with the act of the divorcer. But in this matter there is no relation between the concept drawn from the nature of things and that which is artificial and conventional.

Then Ghazali says, on behalf of the Ash’arites:

The answer is: Do you recognize the impossibility of connecting the eternal Will with the temporal production of anything, through the necessity of intuitive thought or through a logical deduction, or-to use your own logical terminology-do you recognize the clash between these two concepts through a middle term or without a middle term? If you claim a middle term-and this is the deductive method-you will have to produce it, and if you assert that you know this through the necessity of thought, why do your adversaries not share this intuition with you? For the party which believes in the creation of the world in time through an eternal Will includes so many persons that no country can contain them and no number enumerate them, and they certainly do not contradict the logically minded out of obstinacy, while knowing better in their hearts. A proof according to the rules of logic must be produced to show this impossibility, as in all your arguments up till now there is only a presumption of impossibility and a comparison with our decision and our will; and this is false, for the eternal Will does not resemble temporal volitions, and a pure presumption of impossibility will not suffice without proof.

I say:

This argument is one of those which have only a very feeble persuasive power. It amounts to saying that one who claims the impossibility of delay in an effect, when its cause with all its conditions is realized, must assert that he knows this either by a syllogism or from first principles; if through a syllogism, he must produce it—but there is none; if from first principles, it must be known to all, adversaries and others alike. But this argument is mistaken, for it is not a condition of objective truth that it should be known to all. That anything should be held by all does not imply anything more than its being a common notion, just as the existence of a common notion does not imply objective truth.

Ghazali answers on behalf of the Ash’arites:

If it is said, ‘We know by the necessity of thought that, when all its conditions are fulfilled, a cause without effect is inadmissible and that to admit it is an affront to the necessity of thought,’ we answer: what is the difference between you and your adversaries, when they say to you, ‘We know by the necessity of thought the impossibility of a theory which affirms that one single being knows all the universals, without this knowledge forming a plurality in its essence or adding anything to it, and without this plurality of things known implying a plurality in the knowledge’? For this is your theory of God, which according to us and our science is quite absurd. You, however, say there is no analogy between eternal and temporal knowledge. Some of you acknowledge the impossibility involved, and say that God knows only Himself and that He is the knower, the knowledge and the known, and that the three are one. One might object: The unity of the knowledge, the knower, and the known is clearly an impossibility, for to suppose the Creator of the world ignorant of His own work is necessarily absurd, and the Eternal-who is far too high to be reached by your words and the words of any heretics—could, if He knows only Himself, never know His work.

I say

This amounts to saying that the theologians do not gratuitously and without proof deny the admitted impossibility of a delay between the effect and its cause, but base themselves on an argument which leads them to believe in the temporal creation of the world, and that they therefore act in the same way as the philosophers, who only deny the well-known necessary plurality of knowledge and
known, so far as it concerns their unity in God, because of a demonstration which, according to them, leads them to their theory about Him. And that this is still more true of those philosophers who deny it to be necessary that God should know His own work, affirming that He knows only Himself. This assertion belongs to the class of assertions whose contrary is equally false. For there exists no proof which refutes anything that is evidently true, and universally acknowledged. Anything that can be refuted by a demonstrative proof is only supposed to be true, not really true.] Therefore, if it is absolutely and evidently true that knowledge and known form a plurality, both in the visible and in the invisible world, we can be sure that the philosophers cannot have a proof of this unity in God; but if the theory of the plurality of knowledge and known is only a supposition, then it is possible for the philosophers to have a proof. Equally, if it is absolutely true that the effect of a cause cannot be delayed after the causation and the Ash’arites claim that they can advance a proof to deny it, then we can be absolutely sure that they cannot have such a proof. If there is a controversy about questions like this, the final criterion rests with the sound understanding’ which does not base itself on prejudice and passion, when it probes according to the signs and rules by which truth and mere opinion are logically distinguished. Likewise, if two people dispute about a sentence and one says that it is poetry, the other that it is prose, the final judgment rests with the ‘sound understanding’ which can distinguish poetry from prose, and with the science of prosody. And as, in the case of metre, the denial of him who denies it does not interfere with its perception by him who perceives it, so the denial of a truth by a contraditor does not trouble the conviction of the men to whom it is evident.

This whole argument is extremely inept and weak, and Ghazali ought not to have filled his book with such talk if he intended to convince the learned.

And drawing consequences which are irrelevant and beside the point, Ghazali goes on to say:

But the consequences of this argument cannot be overcome. And we say to them: How will you refute your adversaries, when they say the eternity of the world is impossible, for it implies an infinite number and an infinity of unifies for the spherical revolutions, although they can be divided by six, by four, and by two.’ For the sphere of the sun revolves in one year, the sphere of Saturn in thirty years, and so Saturn’s revolution is a thirtieth and Jupiter’s revolution-for Jupiter revolves in twelve years-a twelfth of the sun’s revolution. But the number of revolutions of Saturn has the same infinity as the revolutions of the sun, although they are in a proportion of one to thirty and even the infinity of the sphere of the fixed stars which turns round once in thirty-six thousand years is the same as the daily revolution which the sun performs in twenty-four hours. If now your adversary says that this is plainly impossible, in what does your argument differ from his? And suppose it is asked: Are the numbers of these revolutions even or uneven or both even and uneven or neither even nor uneven? If you answer, both even and uneven, or neither even nor uneven, you say what is evidently absurd. If, however, you say ‘even’ or ‘uneven’, even and uneven become uneven and even by the addition of one unit and how could infinity be one unit short? You must, therefore, draw the conclusion that they are neither even nor uneven.

I say:

This too is a sophistical argument. It amounts to saying: In the same way as you are unable to refute our argument for the creation of the world in time, that if it were eternal, its revolutions would be neither even nor uneven, so we cannot refute your theory that the effect of an agent whose conditions to act are always fulfilled cannot be delayed. This argument aims only at creating and establishing a; doubt, which is one of the sophist’s objectives.

But you, reader of this book, you have already heard the arguments of the philosophers to establish the eternity of the world and the refutation of the Ash’arites. Now hear the proofs of the Ash’arites for their refutation and hear the arguments of the philosophers to refute those proofs in the wording of Ghazali!

[Here, in the Arabic text, the last passage of Ghazali, which previously was given only in an abbreviated form, is repeated in full.]

I say:

This is in brief that, if you imagine two circular movements in one and the same finite time and imagine then a limited part of these movements in one and the same finite time, the proportion between the parts of these two circular movements and between their wholes will be the same. For instance, if the circular movement of Saturn in the period which we call a year is a thirtieth of the
circular movement of the sun in this period, and you imagine the whole of the circular movements of the sun in proportion to the whole of the circular movements of Saturn in one and the same period, necessarily the proportion between their wholes and between their parts will be the same. If, however, there is no proportion between two movements in their totality, because they are both potential, i.e. they have neither beginning nor end but there exists a proportion between the parts, because they are both actual, then the proportion between the wholes is not necessarily the same as the proportion between the parts-although many think so, basing their proof on this prejudice -for there is no proportion between two magnitudes or quantities which are both taken to be infinite. When, therefore, the ancients believed that, for instance, the totality of the movements of the sun and of Saturn had neither beginning nor end, there could be no proportion between them, for this would have implied the finitude of both these totalities, just as this is implied for the parts of both. This is self-evident. Our adversaries believe that, when a proportion of more and less exists between parts, this proportion holds good also for the totalities, but this is only binding when the totalities are finite. For where there is no end there is neither ‘more’ nor ‘less’. The admission in such a case of the proportion of more and less brings with it another absurd consequence, namely that one infinite could be greater than another. This is only absurd when one supposes two things actually infinite, for then a proportion does exist between them. When, however, one imagines things potentially infinite, there exists no proportion at all. This is the right answer to this question, not what Ghazali says in the name of the philosophers.

And through this are solved all the difficulties which beset our adversaries on this question, of which the greatest is that which they habitually formulate in this way: If the movements in the past are infinite, then no movement in the actual present can take place, unless an infinite number of preceding movements is terminated. This is true, and acknowledged by the philosophers, once granted that the anterior movement is the condition for the posterior movement’s taking place, i.e. once granted that the existence of one single movement implies an infinite number of causes. But no philosopher allows the existence of an infinite number of causes, as accepted by the materialists, for this would imply the existence of an effect without cause and a motion without mover. But when the existence of an eternal prime mover had been proved, whose act cannot be posterior to his being, it followed that there could as little be a beginning for his act as for his being; otherwise his act would be possible, not necessary, and he would not be a first principle. The acts of an agent who has no beginning have a beginning as little as his existence, and therefore it follows necessarily that no preceding act of his is the condition for the existence of a later, for neither of them is an agent by itself and their sequence is accidental. An accidental infinite, not an essential infinite, is admitted by the philosophers; nay, this type of infinite is in fact a necessary consequence of the existence of an eternal first principle. And this is not only true for successive or continuous movements and the like, but even where the earlier is regarded as the cause of the later, for instance the man who engenders a man like himself. For it is necessary that the series of temporal productions of one individual man by another should lead upwards to an eternal agent, for whom there is no beginning either of his existence or of his production of man out of man. The production of one man by another ad infinitum is accidental, whereas the relation of before and after in it is essential. The agent who has no beginning either for his existence or for those acts of his which he performs without an instrument, has no first instrument either to perform those acts of his without beginning which by their nature need an instrument.

But since the theologians mistook the accidental for the essential, they denied this eternal agent; the solution of their problem was difficult and they believed this proof to be stringent. But this theory of the philosophers is clear, and their first master Aristotle has explained that, if motion were produced by motion, or element by element, motion and element could not exist. For this type of infinite the philosophers admit neither a beginning nor an end, and therefore one can never say of anything in this series that it has ended or has begun, not even in the past, for everything that has an end must have begun and what does not begin does not end. This can also be understood from the fact that beginning and end are correlatives. Therefore one who affirms that there is no end of the celestial revolutions in the future cannot logically ascribe a beginning to them, for what has a beginning has an end and what has no end has no beginning, and the same relation exists between first and last; i.e. what has a first term has also a last term, and what has no first term has no last term, and there is in reality neither end nor beginning for any part of a series that has no last term, and what has no beginning for any of its
parts has no end for any of them either. When, therefore, the theologians ask the philosophers if the movements which precede the present one are ended, their answer is negative, for their assumption that they have no beginning implies their endlessness. The opinion of the theologians that the philosophers admit their end is erroneous, for they do not admit an end for what has no beginning. It will be clear to you that neither the arguments of the theologians for the temporal creation of the world of which Ghazali speaks, nor the arguments of the philosophers which he includes and describes in his book, suffice to reach absolute evidence or afford stringent proof. And this is what we have tried to show in this book. The best answer one can give to him who asks where in the past is the starting-point of His acts, is: The starting-point of His acts is at the starting-point of His existence; for neither of them has a beginning.

And here is the passage of Ghazali in which he sets forth the defence of the philosophers against the argument built on the difference in speed of the celestial spheres, and his refutation of their argument. Ghazali says:

If one says, ‘The error in your argument consists in your considering those circular movements as an aggregate of units, but those movements have no real existence, for the past is no more and the future not yet; “aggregate” means units existing in the present, but in this case there is no existence.’

Then he says to refute this:

We answer: Number can be divided into even and uneven; there is no third possibility, whether for the numbered permanent reality, or for the numbered passing event. Therefore whatever number we imagine, we must believe it to be even or uneven, whether we regard it as existent or non-existent; and if the thing numbered vanishes from existence, our judgement of its being even or uneven does not vanish or change.

I say:

This is the end of his argument. But this argument—that the numbered thing must be judged as even or uneven, whether it exists or not—is only valid so far as it concerns external things or things in the soul that have a beginning and an end. For of the number which exists only potentially, i.e. which has neither beginning nor end, it cannot truly be said that it is even or uneven, or that it begins or ends; it happens neither in the past nor in the future, for what exists potentially falls under the law of non-existence. This is what the philosophers meant when they said that the circular movements of the past and the future are non-existent. The upshot of this question is: Everything that is called a limited aggregate with a beginning and an end is so called either because it has a beginning and end in the world exterior to the soul, or because it is inside, not outside, the soul. Every totality, actual and limited in the past, whether inside or outside the soul, is necessarily either even or uneven. But an unlimited aggregate existing outside the soul cannot be other than limited so far as it is represented in the soul, for the soul cannot represent unlimited existence. Therefore also this unlimited aggregate, as being limited in the soul, can be called even or uneven; in so far, however, as it exists outside the soul, it can be called neither even nor uneven. Equally, past aggregates which are considered to exist potentially outside the soul, i.e. which have no beginning, cannot be called even or uneven unless they are looked upon as actual, i.e. as having beginning and end. No motion possesses totality or forms an aggregate, i.e. is provided with a beginning or an end, except in so far as it is in the soul, as is the case with time.’ And it follows from the nature of circular movement that it is neither even nor uneven except as represented in the soul. The cause of this mistake is that it was believed that, when something possesses a certain quality in the soul, it must possess this quality also outside the soul, and, since anything that has happened in the past can only be represented in the soul as finite, it was thought that everything that has happened in the past must also be finite outside the soul. And as the circular movements of the future are regarded by the imagination as infinite, for it represents them as a sequence of part after part, Plato and the Ash’arites believed that they might be infinite, but this is simply a judgement based on imagination, not on proof. Therefore those who believe as many theologians have done—that, if the world is supposed to have begun, it must have an end, are truer to their principles and show more consistency.

Ghazali says after this:

And we say moreover to the philosophers: According to your principles it is not absurd that there should be actual units, qualitatively differentiated, which are infinite.
in number; I am thinking of human souls, separated through death from their bodies. These are therefore realities that can neither be called even nor uneven. How will you refute the man who affirms that this is necessarily absurd in the same way as you claim the connexion between an eternal will and a temporal creation to be necessarily absurd? This theory about souls is that which Avicenna accented, and it is perhaps Aristotle’s.

I say:

This argument is extremely weak. It says, in brief, ‘You philosophers need not refute our assertion that what is a logical necessity for you is not necessary, as you consider things possible which your adversaries consider impossible by the necessity of thought. That is to say, just as you consider things possible which your adversaries consider impossible, so you consider things necessary which your adversaries do not consider so. And you cannot bring a criterion for judging the two claims.’ It has already been shown in the science of logic that this is a weak rhetorical or sophistical kind of argument. The answer is that what we claim to be necessarily true is objectively true, whereas what you claim as necessarily absurd is not as you claim it to be. For this there is no other criterion than immediate intuitive apprehension, just as, when one man claims that a line is rhythmical and another denies it, the criterion is the intuition of the sound understanding.

As for the thesis of a numerical plurality of immaterial souls, this is not a theory acknowledged by the philosophers, for they regard matter as the cause of numerical plurality and form as the cause of congruity in numerical plurality. And that there should be a numerical plurality without matter, having one unique form, is impossible. For in its description one individual can only be distinguished from another accidentally, as there is often another individual who participates in this descriptions but only through their matter do individuals differ in reality. And also this: the impossibility of an actual infinite is an acknowledged axiom in philosophical theory, equally valid for material and immaterial things. We do not know of any one who makes a distinction here between the spatial and the non-spatial, with the single exception of Avicenna. I do not know of any other philosopher who affirms this, it does not correspond with any of their principles and it makes no sense, for the philosophers deny the existence of an actual infinite equally for material and for immaterial things, as it would imply that one infinite could be greater than another. Perhaps Avicenna wanted only to satisfy the masses, telling them what they were accustomed to hear about the soul. But this theory is far from satisfactory. For if there were an actual infinite and it were divided in two, the part would equal the whole; e.g. if there were a line or a number actually infinite in both directions and it were divided in two, both the parts and the whole would be actually infinite; and this is absurd. All this is simply the consequence of the admission of an actual and not potential infinite.

Ghazali says:

If it is said, ‘The truth lies with Plato’s theory of one eternal soul which is only divided in bodies and returns after its separation from them to its original unity’, we answer: This theory is still worse, more objectionable and more apt to be regarded as contrary to the necessity of thought. For we say that the soul of Zaid is either identical with the soul of Amr or different from it; but their identity would mean something absurd, for everyone is conscious of his own identity and knows that he is not another, and, were they identical, their knowledge, which is an essential quality of their souls and enters into all the relations into which their souls enter, would be identical too. If you say their soul is unique and only divided through its association with bodies, we answer that the division of a unity which has no measurable volume is absurd by the necessity of thought. And how could the one become two, and indeed a thousand, and then return to its unity? This can be understood of things which have volume and quantity, like the water of the sea which is distributed into brooks and rivers and flows then back again into the sea, but how can that which has no quantity be divided? We seek to show by all this that the philosophers cannot shake the conviction of their adversaries that the eternal Will is connected with temporal creation, except by claiming its absurdity by the necessity of thought, and that therefore they are in no way different from the theologians who make the same claim against the philosophical doctrines opposed to theirs. And out of this there is no issue.

I say:
Zaid and Amr are numerically different, but identical in form. If, for example, the soul of Zaid were numerically different from the soul of Amr in the way Zaid is numerically different from Amr, the soul of Zaid and the soul of Amr would be numerically two, but one in their form, and the soul would possess another soul. The necessary conclusion is therefore that the soul of Zaid and the soul of Amr are identical in their form. An identical form inheres in a numerical, i.e. a divisible, multiplicity, only through the multiplicity of matter. If then the soul does not die when the body dies, or if it possesses an immortal element, it must, when it has left the bodies, form a numerical unity. But this is not the place to go deeper into this subject.

His argument against Plato is sophistical. It says in short that the soul of Zaid is either identical with the soul of Amr or different from it; but that the soul of Zaid is not identical with the soul of Amr and that therefore it is different from it. But ‘different’ is an equivocal term, and ‘identity’ too is predicated of a number of things which are also called ‘different’. The souls of Zaid and Amr are one in one sense and many in another; we might say, one in relation to their form, many in relation to their substratum. His remark that division can only be imagined of the quantitative is partially false; it is true of essential division, but not of accidental division, i.e. of those things which can be divided, because they exist in the essentially divisible. The essentially divisible is, for example, body; accidental division is, for instance, the division of whiteness, when the bodies in which it is present are divided, and in this way the forms and the soul are accidentally divisible, i.e. through the division of the substrate. The soul is closely similar to light: light is divided by the division of illuminated bodies, and is unified when the bodies are annihilated, and this same relation holds between soul and bodies. To advance such sophistical arguments is dishonest, for it may be supposed that he is not a man to have overlooked the points mentioned. What he said, he said only to flatter the masses of his times, but how far removed is such an attitude from the character of those who seek to set forth the truth! But perhaps the man may be forgiven on account of the time and place in which he lived; and indeed he only proceeded in his books in a tentative way.

And as these arguments carry no evidence whatsoever, Ghazali says:

We want to show by all this that the philosophers cannot shake the conviction of their adversaries that the eternal Will is connected with temporal creation, by claiming its absurdity by the necessity of thought, and that therefore they do not distinguish themselves from the theologians, who make the same claim against the philosophical doctrines opposed to theirs. And out of this there is no issue.

I say:

When someone denies a truth of which it is absolutely certain that it is such-and-such, there exists no argument by which we can come to an understanding with him; for every argument is based on known premisses about which both adversaries agree. When each point advanced is denied by the adversary, discussion with him becomes impossible, but such people stand outside the pale of humanity and have to be educated. But for him who denies an evident truth, because of a difficulty which presents itself to him there is a remedy, i.e. the solution of this difficulty. He who does not understand evident truth, because he is lacking in intelligence, cannot be taught anything, nor can he be educated. It is like trying to make the blind imagine colours or know their existence.

Ghazali says:

The philosophers may object: This argument (that the present has been preceded by an infinite past) can be turned against you, for God before the creation of the world was able to create it, say, one year or two years before He did, and there is no limit to His power; but He seemed to have patience and did not create. Then He created. Now, the duration of His inactivity is either finite or infinite. If you say finite, the existence of the Creator becomes finite; if you say infinite, a duration in which there is an infinite number of possibilities receives its termination. We answer: Duration and time are, according to us, created, but we shall explain the real answer to this question when we reply to the second proof of the philosophers.

I say:

Most people who accept a temporal creation of the world believe time to have been created with it. Therefore his assertion that the duration of His inactivity was either limited or unlimited is untrue. For what has no beginning does not finish or end. And the opponent does not admit that the inactivity has any duration at all. What one has to ask them about the consequences of their theory is: Is it
possible, when the creation of time is admitted, that the term of its beginning may lie beyond the real time in which we live? If they answer that it is not possible, they posit a limited extension beyond which the Creator cannot pass, and this is, in their view, shocking and absurd. If, however, they concede that its possible beginning may lie beyond the moment of its created term, it may further be asked if there may not lie another term beyond this second. If they answer in the affirmative—and they cannot do otherwise—it will be said: Then we shall have here a possible creation of an infinite number of durations, and you will be forced to admit—according to your argument about the spherical revolutions—that their termination is a condition for the real age which exists since them. If you say what is infinite does not finish, the arguments you use about the spherical revolutions against your opponents your opponents will use against you on the subject of the possibility of created durations. If it is objected that the difference between those two cases is that these infinite possibilities belong to extensions which do not become actual, whereas the spherical revolutions do become actual, the answer is that the possibilities of things belong to their necessary accidents and that it does not make any difference, according to the philosophers, if they precede these things or are simultaneous with them, for of necessity they are the dispositions of things. If, then, it is impossible that before the existence of the present spherical revolution there should have been infinite spherical revolutions, the existence of infinite possible revolutions is equally impossible. If one wants to avoid these consequences, one can say that the age of the world is a definite quantity and cannot be longer or shorter than it is, in conformity with the philosophical doctrine about the size of the world. Therefore these arguments are not stringent, and the safest way for him who accepts the temporal creation of the world is to regard time as of a definite extension and not to admit a possibility which precedes the possible; and to regard also the spatial extension of the world as finite. Only, spatial extension forms a simultaneous whole; not so time.

Ghazali expounds a certain kind of argument attributed to the philosophers on this subject against the theologians when they denied that the impossibility of delay in the Creator’s act after His existence is known by primitive intuition:

How will you defend yourselves, theologians, against the philosophers, when they drop this argument, based on the necessity of thought, and prove the eternity of the world in this way, saying that times are equivalent so far as the possibility that the Divine Will should attach itself to them is concerned, for what differentiates a given time from an earlier or a later time? And it is not absurd to believe that the earlier or the later might be chosen when on the contrary you theologians say about white, black, movement, and rest that the white is realized through the eternal Will although its substrate accepts equally black and white. Why, then, does the eternal Will attach itself to the white rather than to the black, and what differentiates one of the two possibles from the other for connexion with the eternal Will? But we philosophers know by the necessity of thought that one thing does not distinguish itself from a similar except by a differentiating principle, for if not, it would be possible that the world should come into existence, having the possibility both of existing and of not existing, and that the side of existence, although it has the same possibility as the side of non-existence, should be differentiated without a differentiating principle. If you answer that the Will of God is the differentiating principle, then one has to inquire what differentiates the Will, i.e. the reason why it has been differentiated in such or such way. And if you answer: One does not inquire after the motives of the Eternal, well, let the world then be eternal, and let us not inquire after its Creator and its cause, since one does not inquire after the motives of the Eternal! If it is regarded as possible that the Eternal should differentiate one of the two possibles by chance, it will be an extreme absurdity to say that the world is differentiated in differentiated forms which might just as well be otherwise, and one might then say that this has happened by chance in the same way as you say that the Divine Will has differentiated one time rather than another or one form rather than another by chance. If you say that such a question is irrelevant, because it refers to anything God can will or decide, we answer that this question is quite relevant, for it concerns any time and is pertinent for our opponents to any decision God takes.

We answer: The world exists, in the way it exists, in its time, with its qualities, and
in its space, by the Divine Will and will is a quality which has the faculty of
differentiating one thing from another,’ and if it had not this faculty, power in itself
would suffice. But, since power is equally related to two contraries’ and a
differentiating principle is needed to differentiate one thing from a similar, it is said
that the Eternal possesses besides His power a quality which can differentiate between
two similars. And to ask why will differentiates one of two similars is like asking why
knowledge must comprehend the knowable, and the answer is that ‘knowledge’ is the
term for a quality which has just this nature. And in the same way, ‘will’ is the term
for a quality the nature or rather the essence of which is to differentiate one thing from
another.

The philosophers may object: The assumption of a quality the nature of which is to
differentiate one thing from a similar one is something incomprehensible, nay even
contradictory, for ‘similar’ means not to be differentiated, and ‘differentiated’ means
not similar. And it must not be believed that two blacks in two substrates are similar in
every way, since the one is in one place and the other in another, and this causes a
distinction; nor are two blacks at two times in one substrate absolutely similar, since
they are separated in time, and how could they therefore be similar in every way?
When we say of two blacks that they are similar, we mean that they are similar in
blackness, in their special relation to it—not absolutely. Certainly, if the substrate and
the time were one without any distinction, one could not speak any more of two blacks
or of any duality at all. This proves that the term ‘Divine Will’ is derived from our
will, and one does not imagine that through our will two similar things can be
differentiated.’ On the contrary, if someone who is thirsty has before him two cups of
water, similar in everything in respect to his aim, it will not be possible for him to take
either of them. No, he can only take the one he thinks more beautiful or lighter or
nearer to his right hand, if he is right-handed, or act from some such reason, hidden or
known. Without this the differentiation of the one from the other cannot be imagined.

I say:

The summary of what Ghazali relates in this section of the proofs of the philosophers for the
impossibility of a temporal proceeding from an eternal agent is that in God there cannot be a will. The
philosophers could only arrive at this argument after granting to their opponents that all opposites—
opposites in time, like anterior and posterior, as well as those in quality, like white and black—are
equivalent in relation to the eternal Will. And also non-existence and existence are, according to the
theologians, equivalent in relation to the Divine Will. And having granted their opponents this
premiss, although they did not acknowledge its truth, they said to them: It is of the nature of will that
it cannot give preponderance to one thing rather than to a similar one, except through a differentiating
principle and a cause which only exist in one of these two similar things; if not, one of the two would
happen by chance—and the philosophers argued for the sake of discussion, as if they had conceded
that, if the Eternal had a will, a temporal could proceed from an eternal. As the theologians were
unable to give a satisfactory answer, they took refuge in the theory that the eternal Will is a quality
the nature of which is to differentiate between two similar things, without there being for God a
differentiating principle which inclines Him to one of two similar acts; that the eternal Will is thus a
quality like warmth which gives heat or like knowledge which comprehends the knowable. But their
opponents, the philosophers, answered: It is impossible that this should happen, for two similar things
are equivalent for the willier, and his action can only attach itself to the one rather than to the other
through their being dissimilar, i.e. through one’s having a quality the other has not. When, however,
they are similar in every way and when for God there is no differentiating principle at all, His will
will attach itself to both of them indifferently and, when this is the case—His will being the cause of
His act—the act will not attach itself to the one rather than to the other, it will attach itself either to the
two contrary actions simultaneously or to neither of them at all, and both cases are absurd. The
philosophers, therefore, began their argument, as if they had it granted to them that all things were
equivalent in relation to the First Agent, and they forced them to admit that there must be for God a
differentiating principle which precedes Him, which is absurd. When the theologians answered that
will is a quality the nature of which is to differentiate the similar from the similar, in so far as it is
similar, the philosophers objected that this is not understood or meant by the idea of will. They
therefore appear to reject the principle which they granted them in the beginning.’ This is in short the content of this section. It waves the argument from the original question to the problem of the will; to shift one’s ground, however, is an act of sophistry.

Ghazali answers in defence of the theological doctrine of the Divine Will:

There are two objections: First, as to your affirmation that you cannot imagine this, do you know it by the necessity of thought or through deduction? You can claim neither the one nor the other. Your comparison with our will is a bad analogy, which resembles that employed on the question of God’s knowledge. Now God’s knowledge is different from ours in several ways which we acknowledge. Therefore it is not absurd to admit a difference in the will. Your affirmation is like saying that an essence existing neither outside nor inside the world, neither continuous with the world nor separated from it, cannot be understood, because we cannot understand this according to our human measure; the right answer is that it is the fault of your imagination, for rational proof has led the learned to accept its truth. How, then, will you refute those who say that rational proof has led to establishing in God a quality the nature of which is to differentiate between two similar things? And, if the word ‘will’ does not apply, call it by another name, for let us not quibble about words! We only use the term ‘will’ by permission of the Divine Law. It may be objected that by its conventional meaning ‘will’ designates that which has desire, and God has no desire, but we are concerned here with a question not of words but of fact. Besides, we do not even with respect to our human will concede that this cannot be imagined. Suppose two similar dates in front of a man who has a strong desire for them, but who is unable to take them both. Surely he will take one of them through a quality in him the nature of which is to differentiate between two similar things. All the distinguishing qualities you have mentioned, like beauty or nearness or facility in taking, we can assume to be absent, but still the possibility of the taking remains. You can choose between two answers: either you merely say that an equivalence in respect to his desire cannot be imagined—but this is a silly answer, for to assume it is indeed possible or you say that if an equivalence is assumed, the man will remain for ever hungry and perplexed, looking at the dates without taking one of them, and without a power to choose or to will, distinct from his desire. And this again is one of those absurdities which are recognized by the necessity of thought. Everyone, therefore, who studies, in the human and the divine, the real working of the act of choice, must necessarily admit a quality the nature of which is to differentiate between two similar things.

I say:

This objection can be summarized in two parts: In the first Ghazali concedes that the human will is such that it is unable to differentiate one thing from a similar one, in so far as it is similar, but that a rational proof forces us to accept the existence of such a quality in the First Agent. To believe that such a quality cannot exist would be like believing that there cannot exist a being who is neither inside nor outside the world. According to this reasoning, will, which is attributed to the First Agent and to man, is predicated in an equivocal way, like knowledge and other qualities which exist in the Eternal in a different way from that in which they exist in the temporal, and it is only through the prescription of the Divine Law that we speak of the Divine Will. It is clear that this objection cannot have anything more than a dialectical value. For a proof that could demonstrate the existence of such a quality, i.e. a principle determining the existence of one thing rather than that of a similar, would have to assume things willed that are similar; things willed are, however, not similar, but on the contrary opposite, for all opposites can be reduced to the opposition of being and not being, which is the extreme form of opposition; and opposition is the contrary of similarity. The assumption of the theologians that the things to which the will attaches itself are similar is a false one, and we shall speak of it later. If they say: we affirm only that they are similar in relation to the First Wilier, who in His holiness is too exalted to possess desires, and it is through desires that two similar things are actually differentiated, we answer: as to the desires whose realization contributes to the perfection of the essence of the wilier, as happens with our desires, through which our will attaches itself to the things willed-those desires are impossible in God, for the will which acts in this way is a longing for perfection when there is an imperfection in the essence of the wilier; but as to the desires which
belong to the essence of the things willed, nothing new comes to the willer from their realization. It comes exclusively to the thing willed, for instance, when a thing passes into existence from non-existence, for it cannot be doubted that existence is better for it than non-existence. It is in this second way that the Primal Will is related to the existing things, for it chooses for them eternally the better of two opposites, and this essentially and primally. This is the first part of the objection contained in this argument.

In the second part he no longer concedes that this quality cannot exist in the human will, but tries to prove that there is also in us, in the face of similar things, a will which distinguishes one from the other; of this he gives examples. For instance, it is assumed that in front of a man there are two dates, similar in every way, and it is supposed that he cannot take them both at the same time. It is supposed that no special attraction need be imagined for him in either of them, and that nevertheless he will of necessity distinguish one of them by taking it. But this is an error. For, when one supposes such a thing, and a willer whom necessity prompts to eat or to take the date, then it is by no means a matter of distinguishing between two similar things when, in this condition, he takes one of the two dates. It is nothing but the admission of an equivalence of two similar things; for whichever of the two dates he may take, his aim will be attained and his desire satisfied. His will attaches itself therefore merely to the distinction between the fact of taking one of them and the fact of leaving them altogether; it attaches itself by no means to the act of taking one definite date and distinguishing this act from the act of leaving the other (that is to say, when it is assumed that the desires for the two are equal); he does not prefer the act of taking the one to the act of taking the other, but he prefers the act of taking one of the two, whenever it may be, and he gives a preference to the act of taking over the act of leaving.’ This is self-evident. For distinguishing one from the other means giving a preference to the one over the other, and one cannot give a preponderance to one of two similar things in so far as it is similar to the other-although in their existence as individuals they are not similar since each of two individuals is different from the other by reason of a quality exclusive to it. If, therefore, we assume that the will attaches itself to that special character of one of them, then it can be imagined that the will attaches to the-one rather than the other because of the element of difference existing in both. But then the will does not attach itself to two similar objects, in so far as they are similar. This is, in short, the meaning of Ghazali’s first objection. Then he gives his second objection against those who deny the existence of a quality, distinguishing two similar objects from one another.

Ghazali says:

The second objection is that we say: You in your system also are unable to do without a principle differentiating between two equals, for the world exists in virtue of a cause which has produced it in its peculiar shape out of a number of possible distinct shapes which are equivalent; why, then, has this cause differentiated some of them? If to distinguish two similar things is impossible, it is irrelevant whether this concerns the act of God, natural causality, or the logical necessity of ideas. Perhaps you will say: the universal order of the world could not be different from what it is; if the world were smaller or bigger than it actually is, this order would not be perfect, and the same may be asserted of the number of spheres and of stars. And perhaps you will say: The big differs from the small and the many from the few, in so far as they are the object of the will, and therefore they are not similar but different; but human power is too feeble to perceive the modes of Divine Wisdom in its determination of the measures and qualities of things; only in some of them can His wisdom be perceived, as in the obliquity of the ecliptic in relation to the equator, and in the wise contrivance of the apogee and the eccentric sphere.’ In most cases, however, the secret is not revealed, but the differences are known, and it is not impossible that a thing should be distinguished from another, because the order of the world depends on it; but certainly the times are absolutely indifferent in relation to the world’s possibility and its order, and it cannot be claimed that, if the world were created one moment later or earlier, this order could not be imagined; and this indifference is known by the necessity of thought.-But then we answer: Although we can employ the same reasoning against your argument in the matter of different times, for it might be said that God created the world at the time most propitious for its creation, we shall not limit ourselves to this refutation, but shall assume, according to your own principle, a differentiation in two.
points about which there can be no disagreement: (1) the difference in the direction of spherical movement; (2) the definite place of the poles in relation to the ecliptic in spherical movement. The proof of the statement relating to the poles is that heaven is a globe, moving on two poles, as on two immovable points, whereas the globe of heaven is homogeneous and simple, especially the highest sphere, the ninth, which possesses no stars at all, and these two spheres move on two poles, the north and the south. We now say: of all the opposite points, which are infinite, according to you philosophers, there is no pair one could not imagine as poles. Why then have the two points of the north and south pole been fixed upon as poles and as immovable; and why does the ecliptic not pass through these two poles, so that the poles would become the opposite points of the ecliptic? And if wisdom is shown in the size and shape of heaven, what then distinguishes the place of the poles from others, so that they are fixed upon to serve as poles, to the exclusion of all the other parts and points? And yet all the points are similar, and all parts of the globe are equivalent. And to this there is no answer.

One might say: Perhaps the spot in which the point of the poles is, is distinguished from other points by a special quality, in relation to its being the place of the poles and to its being at rest, for it does not seem to change its place or space or position or whatever one wishes to call it; and all the other spots of the sphere by turning change their position in relation to the earth and the other spheres and only the poles are at rest; perhaps this spot was more apt to be at rest than the others. We answer: If you say so, you explain the fact through a natural differentiation of the parts of the first sphere; the sphere, then, ceases to be homogeneous, and this is in contradiction with your principle, for one of the proofs by which you prove the necessity of the globular shape of heaven, is that its nature is simple, homogeneous, and without differentiation, and the simplest shape is the globe; for the quadrangle and the hexagon and other figures demand a salience and a differentiation of the angles,’ and this happens only when its simple nature is added to. But although this supposition of yours is in contradiction with your own theory, it does not break the strength of your opponents’ argument; the question about this special quality still holds good, namely, can those other parts accept this quality or not? If the answer is in the affirmative, why then is this quality limited to a few only of those homogeneous parts? If the answer is negative, we reply: the other parts, in so far as they constitute bodies, receiving the form of bodies, are homogeneous of necessity, and there is no justification for attributing this special quality to this spot exclusively on account of its being a part of a body and a part of heaven, for the other parts of heaven participate in this qualification. Therefore its differentiation must rest on a decision by God, or on a quality whose nature consists in differentiating between two similars. Therefore, just as among philosophers the theory is upheld that all times are equivalent in regard to the creation of the world, their opponents are justified in claiming that the parts of heaven are equivalent for the reception of the quality through which stability in position becomes more appropriate than a change of position. And out of this there is no issue.

I say:

This means in brief that the philosophers must acknowledge that there is a quality in the Creator of the world which differentiates between two similars, for it seems that the world might have had another shape and another quantity than it actually has, for it might have been bigger or smaller. Those different possibilities are, therefore, equivalent in regard to the determination of the existence of the world. On the other hand, if the philosophers say that the world can have only one special shape, the special quantity of its bodies and the special number of them it actually has, and that this equivalence of possibilities can only be imagined in relation to the times of temporal creation-since for God no moment is more suitable than another for its creation-they may be told that it is possible to answer this by saying that the creation of the world happened at its most propitious moment. But we, the theologians say, want to show the philosophers two equivalent things of which they cannot affirm that there exists any difference between them; the first is the particular direction of the spherical movement and the second the particular position of the poles, relative to the spheres; for any pair whatever of opposite points, united by a line which passes through the centre of the sphere, might
constitute the poles. But the differentiation of these two points, exclusive of all other points which might just as well be the poles of this identical sphere cannot happen except by a quality differentiating between two similar objects. If the philosophers assert that it is not true that any other place on the sphere might be the seat for these poles, they will be told: such an assertion implies that the parts of the spheres are not homogeneous and yet you have often said that the sphere is of a simple nature and therefore has a simple form, viz. the spherical. And again, if the philosophers affirm that there are spots on the sphere which are not homogeneous, it will be asked how these spots came to be of a heterogeneous nature; is it because they are a body or because they are a celestial body? But the absence of homogeneity cannot be explained in this way. Therefore-Ghazali says just as among philosophers the theory is upheld that all times are equivalent in regard to the creation of the world, the theologians are justified in claiming that the parts of heaven are equivalent in regard to their serving as poles, and that the poles do not seem differentiated from the other points through a special position or through their being in an immovable place, exclusive of all other places.

This then in short is the objection; it is, however, a rhetorical one, for many things which by demonstration can be found to be necessary seem at first sight merely possible.' The philosophers’ answer is that they have proved that the world is composed of five bodies: a body neither heavy nor light, i.e. the revolving spherical body of heaven and four other bodies, two of which are earth, absolutely heavy, which is the centre of the revolving spherical body, and fire, absolutely light, which is seated in the extremity of the revolving sphere; nearest to earth is water, which is heavy relatively to air, light relatively to earth; next to water comes air, which is light relatively to water, heavy relatively to fire. The reason why earth is absolutely heavy is that it is farthest away from the circular movement, and therefore it is the fixed centre of the revolving body; the reason why fire is absolutely light is that it is nearest to the revolving sphere; the intermediate bodies are both heavy and light, because they are in the middle between the two extremes, i.e. the farthest point and the nearest. If there were not a revolving body, surely there would be neither heavy nor light by nature, and neither high nor low by nature, and this whether absolutely or relatively; and the bodies would not differ by nature in the way in which, for instance, earth moves by nature to its specific place and fire moves by nature to another place, and equally so the intermediary bodies. And the world is only finite, because of the spherical body, and this because of the essential and natural finiteness of the spherical body, as one single plane circumscribes it.’ Rectilinear bodies are not essentially finite, as they allow of an increase and decrease; they are only finite because they are in the middle of a body that admits neither increase nor decrease, and is therefore essentially finite. And, therefore, the body circumscribing the world cannot but be spherical, as otherwise the bodies would either have to end in other bodies, and we should have an infinite regress, or they would end in empty space, and the impossibility of both suppositions has been demonstrated. He who understands this knows that every possible world imaginable can only consist of these bodies, and that bodies have to be either circular-and then they are neither heavy nor light-or rectilinear-and then they are either heavy or light, i.e. either fire or earth or the intermediate bodies; that these bodies have to be either revolving, or surrounded by a revolving periphery, for each body either moves from, towards, or round the centre; that by the movements of the heavenly bodies to the right and to the left all bodies are constituted and all that is produced from opposites is generated; and that through these movements the individuals of these four bodies never cease being in a continual production and corruption. Indeed, if a single one of these movements should cease, the order and proportion of this universe would disappear, for it is clear that this order must necessarily depend on the actual number of these movements-for if this were smaller or greater, either the order would be disturbed, or there would be another order-and that the number of these movements is as it is, either through its necessity for the existence of this sublunary world, or because it is the best.

Do not ask here for a proof for all this, but if you are interested in science, look for its proof, where you can find it. Here, however, listen to theories which are more convincing than those of the theologians and which, even if they do not bring you complete proof, will give your mind an inclination to lead you to proof through scientific speculation. You should imagine that each heavenly sphere is a living being, in so far as it possesses a body of a definite measure and shape and moves itself in definite directions, not at random. Anything of this nature is necessarily a living being; i.e. when we see a body of a definite quality and quantity move itself in space, in a definite direction, not at random, through its own power, not through an exterior cause, and move in opposite directions at
the same time, we are absolutely sure that it is a living being, and we said only ‘not through an exterior cause’ because iron moves towards a magnet when the magnet is brought to it from the outside—and besides, iron moves to a magnet from any direction whatever. The heavenly bodies, therefore, possess places which are poles by nature, and these bodies cannot have their poles in other places, just as earthly animals have particular organs in particular parts of their bodies for particular actions, and cannot have them in other places, e.g. the organs of locomotion, which are located in definite parts. The poles represent the organs of locomotion in animals of spherical form, and the only difference in this respect between spherical and non-spherical animals is that in the latter these organs differ in both shape and power, whereas in the former they only differ in power. For this reason it has been thought on first sight that they do not differ at all, and that the poles could be in any two points on the sphere. And just as it would be ridiculous to say that a certain movement in a certain species of earthly animal could be in any part whatever of its body, or in that part where it is in another species, because this movement has been localized in each species in the place where it conforms most to its nature, or in the only place where this animal can perform the movement, so it stands with the differentiation in the heavenly bodies for the place of their poles. For the heavenly bodies are not one species and numerically many, but they form a plurality in species, like the plurality of different individuals of animals where there is only one individual in the species.

Exactly the same answer can be given to the question why the heavens move in different directions: that, because they are animals, they must move in definite directions, like right and left, before and behind, which are directions determined by the movements of animals, and the only difference between the movements of earthly animals and those of heavenly bodies is that in the different animals these movements are different in shape and in power, whereas in the heavenly animals they only differ in power. And it is for this reason that Aristotle thinks that heaven possesses the directions of right and left, before and behind, high and low. The diversity of the heavenly bodies in the direction of their movements rests on their diversity of species, and the fact that this difference in the directions of their movements forms the specific differentia of their species is something proper to them. Imagine the first heaven as one identical animal whose nature obliges it—either by necessity or because it is for the best—to move with all its parts in one movement from east to west. The other spheres are obliged by their nature to have the opposite movement. The direction which the body of the universe is compelled to follow through its nature is the best one, because its body is the best of bodies and the best among the moving bodies must also have the best direction. All this is explained here in this tentative way, but is proved apodictically in its proper place. This is also the manifest sense of the Divine Words, ‘There is no changing the words of God’, and ‘There is no altering the creation of God’. If you want to be an educated man, proceeding by proof, you should look for the proof of this in its proper place.

Now if you have understood all this, it will not be difficult for you to see the faults in Ghazali’s arguments here about the equivalence of the two opposite movements in relation to each heavenly body and to the sublunary world. On first thoughts it might be imagined that the movement from east to west might also belong to other spheres besides the first, and that the first sphere might equally well move from west to east. You might as well say that the crab could be imagined as having the same direction of movement as man. But, as a matter of fact, such a thought will not occur to you about men and crabs, because of their difference in shape, whereas it might occur to you about the heavenly spheres, since they agree in shape. He who contemplates a product of art does not perceive its wisdom if he does not perceive the wisdom of the intention embodied in it, and the effect intended. And if he does not understand its wisdom, he may well imagine that this object might have any form, any quantity, any configuration of its parts, and any composition whatever. This is the case with the theologians in regard to the body of the heavens, but all such opinions are superficial. He who has such beliefs about products of art understands neither the work nor the artist, and this holds also in respect of the works of God’s creation. Understand this principle, and do not judge the works of God’s creation hastily and superficially—so that you may not become one of those about whom the Qur’an says: ‘Say, shall we inform you of those who lose most by their works, those who erred in their endeavour after the life of this world and who think they are doing good deeds?’ May God make us perspicacious and lift from us the veils of ignorance; indeed He is the bounteous, the generous! To contemplate the various actions of the heavenly bodies is like contemplating the kingdom of heaven, which Abraham contemplated, according to the words of the Qur’an: ‘Thus did we show Abraham
the kingdom of heaven and of the earth, that he should be of those who are sure.’ And let us now relate Ghazali’s argument about the movements.

Ghazali says:

The second point in this argument concerns the special direction of the movement of the spheres which move partially from east to west, partially in the opposite direction, whereas the equivalence of the directions in relation to their cause is exactly the same as the equivalence of the times. If it is said: If the universe revolved in only one direction, there would never be a difference in the configuration of the stars, and such relations of the stars as their being in trine, in sextile, and in conjunction would, never arise, but the universe would remain in one unique position without any change; the difference of these relations, however, is the principle of all production in the world—we answer: Our argument does not concern the difference in direction of movement; no, we concede that the highest sphere moves from east to west and the spheres beneath it in the opposite direction, but everything that happens in this way would happen equally if the reverse took place, i.e. if the highest sphere moved from west to east and the lower spheres in the opposite direction. For all the same differences in configuration would arise just as well. Granted that these movements are circular and in opposite directions, both directions are equivalent; why then is the one distinguished from the other, which is similar to it?’ If it is said: as the two directions are opposed and contrary, how can they be similar?—we answer: this is like saying ‘since before and after are opposed in the existing world, how could it be claimed that they are equivalent?’ Still, it is asserted by you philosophers that the equivalence of times, so far as the possibility of their realization and any purpose one might imagine in their realization is concerned, is an evident fact. Now, we regard it as equally evident that spaces, positions, situations, and directions are equivalent so far as concerns their receiving movement and any purpose that might be connected with it. If therefore the philosophers are allowed to claim that notwithstanding this equivalence they are different, their opponents are fully justified in claiming the same in regard to the times.

I say:

From what I have said previously, the speciousness of this argument and the way in which it has to be answered will not be obscure to you. All this is the work of one who does not understand the exalted natures of the heavenly bodies and their acts of wisdom for the sake of which they have been created, and who compares God’s knowledge with the knowledge of ignorant man.

Ghazali says:

If it is said: as the two directions are opposed and contrary, how can they be similar?—we answer: this is like saying ‘since before and after are opposed in the existing world, how could it be claimed that they are equivalent?’ Still, it is asserted by you philosophers that the equivalence of times so far as the possibility of their realization, and any purpose one might imagine in their realization is concerned, is an evident fact. Now, we regard it as equally evident that spaces, positions, situations, and directions are equivalent so far as concerns their receiving movement and any purpose that might be connected with it.

I say:

The falsehood of this is self-evident. Even if one should admit that the possibilities of man’s existence and non-existence are equivalent in the matter out of which he has been created, and that this is a proof for the existence of a determining principle which prefers his existence to his non-existence, still it cannot be imagined that the possibilities of seeing and not seeing are equivalent in the eye. Thus no one can claim that the opposite directions are equivalent, although he may claim that the substratum for both is indifferent, and that therefore out of both directions similar actions result. And the same holds good for before and after: they are not equivalent, in so far as this event is earlier and that event later; they can only be claimed to be equivalent so far as their possibility of existence is concerned. But the whole assumption is wrong: for essential opposites also need essentially opposite substrata and a unique substratum giving rise to opposite acts at one and the same time is an impossibility. The philosophers do not believe that the possibilities of a thing’s existence and of its
non-existence are equivalent at one and the same time; no, the time of the possibility of its existence is different from the time of the possibility of its non-existence, time for them is the condition for the production of what is produced, and for the corruption of what perishes. If the time for the possibility of the existence of a thing and the time for the possibility of its non-existence were the same, that is to say in its proximate matter, its existence would be vitiated, because of the possibility of its non-existence, and the possibility of its existence and of its non-existence would be dependent only on the agent, not on the substratum.

Thus he who tries to prove the existence of an agent in this way gives only persuasive, dialectical arguments, not apodictic proof. It is believed that Farabi and Avicenna followed this line to establish that every act must have an agent, but it is not a proof of the ancient philosophers, and both of them merely took it over from the theologians of our religion. In relation, however, to the temporal creation of the world—for him who believes in it—before and after cannot even be imagined, for before and after in time can only be imagined in relation to the present moment, and as, according to the theologians, there was before the creation of the world no time, how could there be imagined something preceding the moment when the world was created? A definite moment cannot be assigned for the creation of the world, for either time did not exist before it, or there was an infinite time, and in neither case could a definite time be fixed to which the Divine could attach itself. Therefore it would be more suitable to call this book ‘Incoherence’ without qualification rather than ‘The Incoherence of the Philosophers’, for the only profit it gives the reader is to make him incoherent.

Ghazali says:

If, therefore, the philosophers are allowed to claim that, notwithstanding this equivalence, they are different, their opponents are fully justified in claiming the same in regard to times.

I say:

He wants to say: If the philosophers are justified in claiming a difference in the direction of movement, the theologians have the right to assert a difference in times, notwithstanding their belief in their equivalence. This is only a verbal argument, and does not refer to the facts themselves, even if one admits an analogy between the opposite directions and the different times, but this is often objected to, because there is no analogy between this difference in times and directions. Our adversary, however, is forced to admit that there is an analogy between them, because they are both claimed to be different, and both to be equivalent! These, therefore, are one and all only dialectical arguments.

Ghazali says:

The second objection against the basis of their argument is that the philosophers are told: ‘You regard the creation of a temporal being by an eternal as impossible, but you have to acknowledge it too, for there are new events happening in the world and they have causes. It is absurd to think that these events lead to other events ad infinitum, and no intelligent person can believe such a thing. If such a thing were possible, you need not acknowledge a creator and establish a necessary being on whom possible existences depend. If, however, there is a limit for those events in which their sequence ends, this limit will be the eternal and then indubitably you too acknowledge the principle that a temporal can proceed from an eternal being.’

I say:

If the philosophers had introduced the eternal being into reality from the side of the temporal by this kind of argument, i.e. if they had admitted that the temporal, in so far as temporal, proceeds from an eternal being, there would be no possibility of their avoiding the difficulty in this problem. But you must understand that the philosophers permit the existence of a temporal which comes out of a temporal being ad infinitum in an accidental way, when this is repeated in a limited and finite matter—when, for instance, the corruption of one of two things becomes the necessary condition for the existence of the other. For instance, according to the philosophers it is necessary that man should be produced from man on condition that the anterior man perishes so as to become the matter for the production of a third. For instance, we must imagine two men of whom the first produces the second from the matter of a man who perishes; when the second becomes a man himself, the first perishes, then the second man produces a third man out of the matter of the first, and then the second perishes and the third produces out of his matter a fourth, and so we can imagine in two matters an activity
continuing ad infinitum, without any impossibility arising. And this happens as long as the agent lasts, for if this agent has neither beginning nor end for his existence, the activity has neither beginning nor end for its existence, as it has been explained before. And in the same way you may imagine this happening in them in the past: When a man exists, there must before him have been a man who produced him and a man who perished, and before this second man a man who produced him and a man who perished, for everything that is produced in this way is, when it depends on an eternal agent, of a circular nature in which no actual totality can be reached. If, on the other hand, a man were produced from another man out of infinite matters, or there were an infinite addition of them, there would be an impossibility, for then there could arise an infinite matter and there could be an infinite whole. For if a finite whole existed to which things were added ad infinitum without any corruption taking place in it, an infinite whole could come into existence, as Aristotle proved in his Physics. For this reason the ancients introduce an eternal absolutely unchanging being, having in mind not temporal beings, proceeding from him in so far as they are temporal, but beings proceeding from him as being eternal generically, and they hold that this infinite series is the necessary consequence of an eternal agent, for the temporal needs for its own existence only a temporal cause. Now there are two reasons why the ancients introduce the existence of an eternal numerically unique being which does not suffer any change. The first is that they discovered that this revolving being is eternal, for they discovered that the present individual is produced through the corruption of its predecessor and that the corruption of this previous individual implies the production of the one that follows it, and that it is necessary that this everlasting change should proceed from an eternal mover and an eternal moved body, which does not change in its substance, but which changes only in place; so far as concerns its parts, and approaches certain of the transitory things and recedes from certain of them, and this is the cause of the corruption of one half of them and the production of the other half. And this heavenly body is the being that changes in place only, not in any of the other kinds of change, and is through its temporal activities the cause of all things temporal; and because of the continuity of its activities which have neither beginning nor end, it proceeds from a cause which has neither beginning nor end. The second reason why they introduce an eternal being absolutely without body and matter is that they found that all the kinds of movement depend on spatial movement, and that spatial movement depends on a being moved essentially by a prime mover, absolutely unmoved, both essentially and accidentally, for otherwise there would exist at the same time an infinite number of moved movers, and this is impossible. And it is necessary that this first mover should be eternal, or else it would not be the first. Every movement, therefore, depends on this mover and its setting in motion essentially, not accidentally. And this mover exists simultaneously with each thing moved, at the time of its motion, for a mover existing before the thing moved-such as a man producing a man—sets only in motion essentially, not essentially; but the mover who is the condition of man’s existence from the beginning of his production till its end, or rather from the beginning of his existence till its end, is the prime mover. And likewise his existence is the condition for the existence of all beings and the preservation of heaven and earth and all that is between them. All this is not proved here apodictically, but only in the way we follow here and which is in any case more plausible for an impartial reader than the arguments of our opponents.

If this is clear to you, you certainly are in no need of the subterfuge by which Ghazali in his argument against the philosophers tries to conciliate them with their adversaries in this matter; indeed these artifices will not do, if you have not understood how the philosophers introduce an eternal being into reality, you have not understood how they settle the difficulty of the rise of the temporal out of the eternal; they do that, as we said, either through the medium of a being eternal in its essence but generable and corruptible in its particular movements, not, however, in its universal circular movement, or through the medium of what is generically eternal-i.e. has neither beginning nor end-in its acts.

Ghazali answers in the name of the philosophers:

The philosophers may say, 'we do not consider it impossible that any temporal being, whatever it may be, should proceed from an eternal being, but we regard it as impossible that the first temporal should proceed from the eternal, as the mode of its procession does not differ from that which precedes it, either in a greater inclination towards existence or through the presence of some particular time, or through an instrument, condition, nature, accident, or any cause whatever which might produce a
new mode. If this therefore is not the first temporal, it will be possible that it should proceed from the eternal, when another thing proceeds from it, because of the disposition of the receiving substratum, or because the time was propitious or for any other reason.

Having given this reply on the part of the philosophers, Ghazali answers it:

This question about the actualization of the disposition, whether of the time and of any new condition which arises in it, still holds good, and we must either come to an infinite regress or arrive at an eternal being out of which a first temporal being proceeds.

I say:

This question is the same question all over again as he asked the philosophers first, and this is the same kind of conclusion as he made them draw then, namely that a temporal proceeds from an eternal, and having given as their answer something which does not correspond with the question, i.e. that it is possible that a temporal being should proceed from the Eternal without there being a first temporal being, he turns the same question against them again. The correct answer to this question was given above: the temporal proceeds from the First Eternal, not in so far as it is temporal but in so far as it is eternal, i.e. through being eternal generically, though temporal in its parts. For according to the philosophers an eternal being out of which a temporal being proceeds essentially is not the First Eternal, but its acts, according to them, depend on the First Eternal; i.e. the actualization of the condition for activity of the eternal, which is not the First Eternal, depends on the First Eternal in the same way as the temporal products depend on the First Eternal and this is a dependence based on the universal, not on individuals.

After this Ghazali introduces an answer of the philosophers, in one of the forms in which this theory can be represented, which amounts to this: A temporal being proceeding from an eternal can only be represented by means of a circular movement which resembles the eternal by not having beginning or end and which resembles the temporal in so far as each part of it is transient, so that this movement through the generation of its parts is the principle of temporal things, and through the eternity of its totality the activity of the eternal.

Then Ghazali argues against this view, according to which in the opinion of the philosophers the temporal proceeds from the First Eternal, and says to them:

Is this circular movement temporal or eternal? If it is eternal, how does it become the principle for temporal things? And if it is temporal, it will need another temporal being and we shall have an infinite regress. And when you say that it partially resembles the eternal, partially the temporal, for it resembles the eternal in so far as it is permanent and the temporal in so far as it arises anew, we answer: Is it the principle of temporal things, because of its permanence, or because of its arising anew? In the former case, how can a temporal proceed from something because of its permanence? And in the latter case, what arises anew will need a cause for its arising anew, and we have an infinite regress.

I say:

This argument is sophistical. The temporal does not proceed from it in so far as it is eternal, but in so far as it is temporal; it does not need, however, for its arising anew a cause arising anew, for its arising anew is not a new fact, but is an eternal act, i.e. an act without beginning or end. Therefore its agent must be an eternal agent, for an eternal act has an eternal agent, and a temporal act a temporal agent. Only through the eternal element in it can it be understood that movement has neither beginning nor end, and this is meant by its permanence, for movement itself is not permanent, but changing.

And since Ghazali knew this, he said:

In order to elude this consequence the philosophers have a kind of artifice which we will expose briefly.

Ghazali says:

THE SECOND PROOF OF THE PHILOSOPHERS CONCERNING THIS PROBLEM
They assert that he who affirms that the world is posterior to God and God prior to the world cannot mean anything but that He is prior not temporally but essentially like the natural priority of one to two, although they can exist together in temporal existence, or like the priority of cause to effect, for instance the priority of the movement of a man to the movement of his shadow which follows him, or the movement of the hand to the movement of the ring, or the movement of the hand in the water to the movement of the water, for all these things are simultaneous, but the one is cause, the other effect, for it is said that the shadow moves through the movement of the man and the water through the hand in the water, and the reverse is not said although they are simultaneous. If this is what you mean by saying that God is prior to the world, then it follows that they must both either be temporal or eternal, for it is absurd that the one should be temporal and the other eternal. If it is meant that God is prior to the world and to time, not essentially, but temporally, then there was, before the existence of the world and of time, a time in which the world was non-existent, since non-existence preceded the world and God preceded it during a long duration which had a final term but no initial one, and then there was before time an infinite time, which is self-contradictory. Therefore the assertion that time had a beginning is absurd. And if time-which is the expression of the measure of movement -is eternal, movement must be eternal. And the necessity of the eternity of movement implies the necessity of the eternity of the thing in motion, through the duration of which time endures.

I say:

The mode of their reasoning which he reproduces does not constitute a proof. It amounts to saying that the Creator, if He is prior to the world, must either be prior not in time, but in causation, like the priority of a man to his shadow, or prior in time, like a builder to a wall. If He is prior in the same way as the man is prior to his shadow, and if the Creator is eternal, then the world too is eternal. But if He is prior in time, then He must precede the world by a time which has no beginning, and time will be eternal, for if there is a time before the actual, its starting-point cannot be imagined. And if time is eternal, movement too is eternal, for time cannot be understood without motion. And if motion is eternal, the thing in motion will be eternal, and its mover will necessarily be eternal too. But this proof is unsound, for it is not of the nature of the Creator to be in time, whereas it belongs to the nature of the world to be so; and for this very reason it is not true that He is either simultaneous with it or prior to it in time or in causation.

Ghazali says

The objection to this is: Time is generated and created, and before it there was no time at all. The meaning of our words that God is prior to the world and to time is: He existed without the world and without time, then He existed and with Him there was the world and there was time. And the meaning of our words that He existed without the world is: the existence of the essence of the Creator and the non-existence of the essence of the world, and nothing else. And the meaning of our words that He existed and with Him there was the world is: the existence of the two essences, and nothing else. And the meaning of priority: the uniqueness of His existence, and nothing else. And the world is like a singular person; if we should say, for instance: God existed without Jesus, then He existed with Jesus-these words contain nothing but, first, the existence of an essence and the non-existence of an essence, then, the existence of two essences, and there is no need to assume here a third essence, namely time, although imagination cannot desist from assuming it. But we should not heed the errors of the imagination.

I say:

These words are erroneous and mistaken, for we have already proved that there are two kinds of existence: one in the nature of which there is motion and which cannot be separated from time; the other in the nature of which there is no motion and which is eternal and cannot be described in terms of time. The first is known by the senses and by reason; the existence of the second-in the nature of
which there is neither motion nor change—is known by proof to everyone who acknowledges that
each motion needs a mover and each effect a cause, and that the causes which move each other do not
regress infinitely, but end in a first cause which is absolutely unmoved. And it has also been
established that the entity in the nature of which there is no movement is the cause of the entity in the
nature of which there is movement. And it has been proved also that the entity in the nature of which
there is motion cannot be separated from time, and that the entity in the nature of which there is no
movement is entirely free from time. Therefore the priority of the one entity over the other is based
neither on a priority in time, nor on the priority of that kind of cause and effect, which belongs to the
nature of things in motion, like the priority of a man to his shadow. For this reason anyone who
compares the priority of the unmoved being to the thing in motion to the priority existing between
two things in motion is in error; since it is only true of each one in pairs of moving things that, when
it is brought in relation to the other, it is either simultaneous with it or prior or posterior in time to it.
It is the later philosophers of Islam who made this mistake, since they enjoyed but slight
comprehension of the doctrine of the ancients. So the priority of this one being to the other is the
priority of the unchanging timeless existence to the changing existence which is in time, and this is an
altogether different type of priority. It is therefore not true of these existences that they are
simultaneous, or that the one precedes the other, and Ghazali’s observation that the priority of the
Creator to the world is not a temporal priority is true. But the posteriority of the world to the Creator,
since He does not precede the world in time, can only be understood as the posteriority of effect to
cause,’ for posteriority and priority are opposites which are necessarily in one genus, as has been
shown in the sciences.’ Since therefore this priority is not in time, the posteriority also cannot be in
time, and we have the same difficulty all over again: how can the effect be delayed after the cause
when the conditions of acting are fulfilled? The philosophers, however, since they do not recognize a
beginning in the totality of this existence in motion, are not touched by this difficulty, and it is
possible for them to indicate in what way the temporal beings proceed from the eternal. One of their
proofs that existence in motion has no beginning, and that in its totality it does not start, is that, when
it is assumed to start, it is assumed to exist before its existence, for to start is a movement, and
movement is of necessity in the thing in motion, equally whether the movement is regarded as taking
place in time or at an instants Another proof is that everything that becomes has the potentiality of
becoming before it actually becomes, although the theologians deny this (a discussion with them on
this point will follow); now potentiality is a necessary attribute of being in motion, and it follows
necessarily that, if it were assumed to become, it would exist before its existence. What we have here
are only dialectical arguments; they have, however, a much greater plausibility than what the
theologians advance.
As for Ghazali’s words:

If we should say, for instance, that God existed without Jesus, and then He existed
with Jesus, these words contain nothing but, first, the existence of an essence and the
non-existence of an essence, then, the existence of two essences, and there is no need
to assume here a third essence, namely time.

I say:

This is true, provided that Jesus’ posteriority is not regarded as an essential temporal posteriority,
but, if there is a posteriority, it is an accidental posteriority, for time precedes this posterior entity, i.e.
it is a necessity of Jesus’ existence that time should precede Him and that His existence should have
begun, but the world is not subject to such a necessity, except in so far as it is a part of a moving
existence beyond which time extends in two directions,’ as happens to Jesus and other transitory
individuals.z Nothing of this is proved here; here it is simply explained that the objection is not valid.
In addition, what he says afterwards of the proofs of the philosophers is untrue.

Answering in the name of the philosophers, Ghazali says:

One might say that our expression ‘God existed without the world’ means a third
thing, besides the existence of one being and the non-existence of another, because, if
we should suppose that in the future God should exist without the world, there would
be in the future the existence of one being and the non-existence of another, still it
would not be right to say ‘God existed without the world’, but we should say ‘God will
exist without the world’, for only of the past do we say ‘God existed without the
world'; and between the words ‘existed’ and ‘will exist’ there is a difference, for they cannot replace each other. And if we try to find out where the difference between the two sentences lies, it certainly does not lie in the words ‘existence of one being’ and ‘non-existence of another being’, but in a third entity, for if we say of the non-existence of the world in the future ‘God was without the world’, it will be objected: this is wrong, for ‘was’ refers only to the past. This shows therefore that the word ‘was’ comprises a third entity, namely the past, and the past by itself is time, and through another existent it is movement, for movement passes only through the passing of time. And so it follows necessarily that, before the world, a time finished which terminated in the existence of the world.

I say:

In this in brief he shows that when it is said ‘such-and-such was without such-and-such’ and then ‘such-and-such was with such-and-such’ a third entity is understood, namely time. The word ‘was’ shows this, because of the difference in the meaning of this concept in the past and in the future, for if we assume the existence of one thing with the non-existence of another in the past, we say ‘such a thing existed without such a thing’, but when we assume the non-existence of the one with the existence of the other in the future, we say ‘such a thing will exist without such a thing’, and the change in meaning implies that there is here a third entity. If in our expression ‘such-and-such existed without such-and-such’ the word ‘existed’ did not signify an entity, the word ‘existed’ would not differ from ‘will exist’. All this is self-evident, but it is only unquestionable in relation to the priority and posteriority of things which are by nature in time. Concerning the timeless the word ‘was’ and the like indicate in such a proposition nothing but the copula between predicate and subject, when we say, for example, ‘God was indulgent and compassionate’; and the same holds when either predicate or subject is timeless, e.g. when we say ‘God was without the world, then God was with the world’. Therefore for such existents the time-relation to which he refers does not hold. This relation is, however, unquestionably real when we compare the non-existence of the world with its existence, for if the world is in time, the non-existence of the world as to be in time too. And since the non-existence and the existence of the world cannot be in one and the same time, the non-existence must precede; the non-existence must be prior and the world posterior to it, for priority and posteriority in the moving can only be understood in this relation to time. The only flaw in this argument is to assume this relation between God and the world. Only in this point is the argument which Ghazali relates faulty and does it fail to constitute a proof.

Then Ghazali gives the theologian’s objection to this argument of the philosophers:

The primitive meaning of the two words is the existence of one thing and the non-existence of another. The third element which is the connexion between the two words is a necessary relation to us. The proof is that, if we should suppose a destruction of the world in the future and afterwards a second existence for us, we should then say ‘God was without the world’, and this would be true, whether we meant its original non-existence or the second non-existence, its destruction after its existence. And a sign that this is a subjective relation is that the future can become past and can be indicated by the word ‘past’.

All this is the consequence of the inability of our imagination to imagine the beginning of a thing without something preceding it, and this ‘before’ of which the imagination cannot rid itself is regarded as a really existing thing, namely time. This resembles the inability of the imagination to admit a limited body, e.g. overhead, without anything beyond its surface, so that it is imagined that behind the world there is a space either occupied or empty; and when it is said there is above the surface of the world no beyond and no farther extension, this is beyond the grasp of the imagination. Likewise, when it is said that there is no real anterior to the existence of the world, the imagination refuses to believe it. But the imagination may be called false in allowing above the world an empty space which is an infinite extension by our saying to it: empty space cannot be understood by itself, for extension is the necessary attribute of a body whose sides comprise space’; a finite body implies the finiteness of extension, which is its attribute and the limitation of occupied space; empty space is unintelligible, therefore there is neither empty nor occupied space behind the world, although the imagination cannot admit this. And in the same way as
it is said that spatial extension is an attribute of body, temporal extension is an attribute of motion, for time is the extension of movement just as the space between the sides of a body is the extension of space. And just as the proof that the sides of a body are finite prevents the admission of a spatial extension behind the world, so the proof of the finite character of movement in both directions prevents the supposition of a temporal extension behind the world, although the imagination, subject to its illusion and supposition, admits it and does not hold back from it. There is no difference between temporal extension, which is apprehended as divided through the relation of before and after, and spatial extension, which is apprehended as divided through the relation of high and low. If it is therefore permissible to admit a highest point above which there is nothing, it is equally permissible to admit a beginning, not preceded by anything real, except through an illusion similar to that which permits a beyond for the highest space. This is a legitimate consequence; notice it carefully, as the philosophers themselves agreed that behind the world there is neither empty nor occupied space.

I say:

There are two parts to this objection; the first is that, when we imagine the past and the future, i.e. the prior and the posterior, they are two things existing in relation to our imagination, because we can imagine a future event as becoming past and a past event as having been future. But if this is so, past and future are not real things in themselves and do not possess existence outside the soul; they are only constructs of the soul. And when movement is annihilated, the relation and measure of time will not have sense any more.

The answer is that the necessary connexion of movement and time is real and time is something the soul constructs in movement, but neither movement nor time is annihilated: they are only abolished in those things which are not subject to motion, but in the existence of moving things or in their possible existence time inheres necessarily. For there are only two kinds of being, those that are subject to motion and those that are not, and the one kind cannot be converted into the other, for otherwise a conversion of the necessary into the possible would become possible. For if movement were impossible and then afterwards occurred, the nature of things which are not subject to motion would have changed into the nature of things subject to motion, and this is impossible. This is a consequence of the fact that motion inheres necessarily in a substratum. If movement were possible before the existence of the world, the things which are subject to movement would be necessarily in time, for movement is only possible in what is subject to rest,’ not in absolute non-existence, for in absolute non-existence there is no possibility whatever, or one would have to admit that absolute non-existence could be converted into existence. Therefore, the non-existence or privation which necessarily precedes the occurrence of a thing has to be connected with a substratum, and will be disconnected from it when the substratum actually receives this occurrence, as happens with all contraries. For instance, when a warm thing becomes cold, the essence of warmth does not change into coldness; it is only the receptacle and the substratum of warmth that exchange their warmth for coldness.

The second part of this objection—and it is the most important of these objections—is sophistical and malicious. It amounts to saying that to imagine something before the beginning of this first movement (which is not preceded by any moving body) is like the illusion that the end of the world, for example, its highest part, ends necessarily either in another body or in empty space, for extension is a necessary attribute of body, as time is a necessary attribute of movement. And if it is impossible that there should be an infinite body, it is impossible that there should be an infinite extension, and, if it is impossible that there should be infinite extension, it is impossible that every body should end in another body or in something which has the potentiality of extension, i.e. for instance, emptiness, and that this should continue without end. And the same applies to movement which has time as a necessary attribute, for if it is impossible that there should be infinite past movements and there exists therefore a first movement with a finite initial term, it is impossible that there should exist a ‘before’ before it, for, if so, there would be another movement before the first.

This objection is, as we said, malicious, and belongs to the class of sophistical substitutions—you will recognize what I mean if you have read the book On sophistic refutations. In other words, Ghazali treats the quantity which has no position and does not form a totality, i.e. time and motion, as the quantity which possesses position and totality, i.e. body. He makes the impossibility of
endlessness in the latter a proof of its impossibility in the former, and he deals with the act of the soul when it imagines an increase in the one quantity which is assumed to be actual, i.e. body, as if it concerned both quantities. This is a manifest error. For to imagine an increase in actual spatial magnitude, so that it must end in another actual spatial magnitude, is to imagine something which does not exist in the essence and definition of spatial magnitude, but to imagine priority and posteriority in a movement that occurs is to imagine something that belongs to its essence. For a movement can only occur in time, i.e. time has to pass beyond its beginning. For this reason one cannot represent a time the initial term of which is not the final term of another time, for the definition of ‘the instant’ is that it is the end of the past and the beginning of the future,’ for the instant is the present which necessarily is the middle between the past and the future, and to represent a present which is not preceded by a past is absurd. This, however, does not apply to the point, for the point is the end of the line and exists at the same time as the line, for the line is at rest. Therefore one can imagine a point which is the beginning of a line without its being the end of another line, but the instant cannot exist without the past and tile future, and exists necessarily after the past and before the future, and what cannot subsist in itself cannot exist before the existence of the future without being the end of tile past. The cause of this error is the comparison of the instant with the point. The proof that each movement which occurs is preceded by time is this: everything must come to exist out of a privation, and nothing can become in the instant-of which it can be truly said that its becoming is a vanishing-and so it must be true that its privation must be in another moment than that in which it itself exists, and there is time between each pair of instants, because instant is not continuous with instant, nor point continuous with point. This has been proved in the sciences. Therefore before the instant in which the movement occurs there must necessarily be a time, because, when we represent two instants in reality, there must necessarily be time between them.

And what is said in this objection that ‘higher’ resembles ‘before’ is not true, nor does the instant resemble the point, nor the quantity which possesses position the quantity which does not possess position.’ He who allows the existence of an instant which is not a present, or of a present which is not preceded by a past, denies time and the instant, for he assumes an instant as having the description which we have mentioned, and then assumes a time which has no beginning-which is a self-contradictory assumption. It is, therefore, wrong to ascribe to an act of imagination the fact that there is a prior event for every occurrence, for he who denies priority denies the event in time. The contrary is the case with the man who denies the real character of the high, for he denies the absolutely high and, when he denies the absolutely high, he denies also the absolutely low,’ and when these two are denied, also the heavy and the light are denied’, and the act of the imagination that a body with straight dimensions must end in another body is not false; no, this is a necessary truth, for the body with straight dimensions has the possibility of increasing, and what has this possibility is not limited by nature. Therefore the body with straight surfaces must end in the circumscribing circular body, since this is the perfect body which is liable neither to increase nor to decrease. Therefore when the mind seeks to imagine that the circular body must end in another body, it imagines the impossible. These are all matters of which the theologians and those who do not start their inquiry in the proper scientific order are unaware.

Further, the relation between time and motion is not the same as that between spatial limit and spatial magnitude, for the spatial limit is an attribute of spatial magnitude, in so far as it inheres in it, in the way that the accident inheres in its substratum and is individualized by the individuality of its substratum and is indicated by pointing at its substratum and by its being in the place in which its substratum is. But this is not the case with the necessary relation between time and motion. For the dependence of time on motion is much like the dependence of number on the thing numbered: just as number does not become individualized through tire individuation of the thing numbered, nor pluralized through its plurality, so it stands with the relation between time and movement. Time, therefore, is unique for all movement and for each thing moving, and exists everywhere, so that if we should suppose people confined from youth in a cave in the earth, still we should be sure that they would perceive time, even if they did not perceive any of the movements which are perceived in the world. Aristotle therefore thought that the existence of movements in time is much like the existence of the things numbered in numbers for number is not pluralized through the plurality of the things numbered, nor is it localized through the individuation of the places numbered. He thought, therefore, that its specific quality was to measure the movements and to measure the existence of moving things,
in so far as they are moving, as number counts the individual moving things, and therefore Aristotle says in his definition of time that it is the number of movement according to the relations of anterior and posterior.' Therefore, just as the supposition that a thing numbered occurs does not imply that number comes into existence, but it is a necessary condition for the occurrence of a thing numbered that number should exist before it, so the occurrence of movement implies that there was time before it. If time occurred with the occurrence of any individual movement whatever, time would only be perceived with that individual movement. This will make you understand how different the nature of time is from the nature of spatial magnitude.

Ghazali answers on behalf of the philosophers:

It may be said: This comparisons is lame, for there is neither above nor below in the world; for the world is spherical, and in the sphere there is neither above nor below; if the one direction is called above, because it is overhead, and the other below, because it is under foot, this name is always determined in relation to you, and the direction which is below in relation to you is above in relation to another, if you imagine him standing on the other side of the terrestrial globe with the sole of his foot opposite the sole of your foot. Yes, these parts of heaven which you reckon above during the day are identical with what is below during the night, and what is below the earth comes again above the earth through the daily revolution. But it cannot be imagined that the beginning of the world becomes its end. If we imagined a stick with one thick and one thin end and we agreed to call the part nearest the thin end ‘above’ and the other ‘below’, there would not arise from this an essential differentiation in the parts of the world; it would simply be that different names would have been applied to the shape of the stick, so that if we substituted the one name for the other, there would be an exchange of names, but the world itself would remain unchanged. So ‘above’ and ‘below’ are a mere relation to you without any differentiation in the parts and places of the world. The non-existence, however, preceding the world and the initial term of its existence are essential realities, a substitution or a change of which cannot be imagined. Nor can it be imagined that the non-existence which is supposed to occur at the disappearance of the world and which follows the world can become the non-existence preceding it. The initial and final terms of the world’s existence are permanent essential terms, in which no change can be imagined through the change of the subjective relation to them, in contrast with ‘above’ and ‘below’. Therefore we philosophers, indeed, are justified in saying that in the world there is neither ‘above’ nor ‘below’, but you theologians have not the right to assert that the existence of the world has neither a ‘before’ nor an ‘after’.

And when the existence of ‘before’ and ‘after’ is proved, time cannot mean anything but what is apprehended through the anterior and the posterior.

I say:

This answer given in the name of the philosophers is extremely unsound. It amounts to saying that ‘above’ and ‘below’ are relative to us and that therefore imagination can treat them as an infinite sequence, but that the sequence of ‘before’ and ‘after’ does not rest on imagination—for there is here no subjective relation—but is a ~ purely rational concept. This means that the order of above and below in a thing may be reversed in imagination, but that the privation before an event and the privation after an event, its before and its after, are not interchangeable for imagination. But by giving this answer the problem is not solved, for the philosophers think that i there exists a natural above; to which light things move and a natural below to which heavy things move, or else the heavy and the light would be relative and exist by convention, and they hold that in imagination the limit of a body, having by nature its place above, may end either in occupied or in empty space. And this argument is invalid as a justification of the philosophers for two reasons. First, that the philosophers assume an absolute above and an absolute below, but no absolute beginning and no absolute end; secondly that their opponents may object that it is not the fact of their being relative that causes the imagination to regard the sequence of low and high as an infinite series, but that this happens to the imagination because it observes that every spatial magnitude is continuous with another spatial magnitude, just as any event is preceded by another event. Therefore Ghazali transfers the question from the words ‘above’ and ‘below’ to ‘inside’ and ‘outside’s and he says in his answer to the philosophers:
There is no real difference in the words ‘above’ and ‘below’, and therefore there is no sense in defining them, but we will apply ourselves rather to the words ‘inside’ and ‘outside’. We say: The world has an inside and an outside; and we ask: Is there outside the world an occupied or empty space? The philosophers will answer: There is outside the world neither occupied nor empty space, and if you mean by ‘outside’ its extreme surface, then there is an outside, but if you mean anything else, there is no outside. Therefore if they ask us theologians if there is anything before the existence of the world, we say: If you mean by it the beginning, i.e. its initial term, then there is a before, just as there is an outside to the world according to your explanation that that is its ultimate limit and its final plane, but if you mean anything else, then there is not, in analogy with your answer.

If you say: A beginning of existence, without anything preceding it, cannot be understood, we say: A limit of a body existing without anything outside it cannot be understood. If you say: Its exterior is its furthest plane and nothing else, we say: Its before is the beginning of its existence, nothing else. The conclusion is that we say: We affirm that God has an existence without the world’s existing, and this assumption again does not force us to accept anything else. That to assume more rests on the act of imagination is proved by the fact that imagination acts in the same way in regard to time as in regard to place, for although our opponents believe in the eternity of the world, their imagination is willing to suppose it created; whereas we, who believe in its creation, are often allowed by our imagination to regard it as eternal. So much as far as body is concerned; but to revert to time, our opponents do not regard a time without a beginning as possible, and yet in opposition to this belief their imagination can represent it as a possible assumption, although time cannot be represented by the imagination in the way that body is represented, for neither the champion nor the opponent of the finitude of body can imagine a body not surrounded by empty or occupied space; the imagination simply refuses to accept it. Therefore one should say: a clear thinker pays no attention to the imagination when he cannot deny the finitude of body by proof, nor does he give attention to the imagination when he cannot deny the beginning of an existence without anything preceding it, which the imagination cannot grasp. For the imagination, as it is only accustomed to a body limited by another body or by air, represents emptiness in this way, although emptiness, being imperceptible, cannot be occupied by anything. Likewise the imagination, being only accustomed to an event occurring after another event, fears to suppose an event not preceded by another event which is terminated. And this is the reason of the error.

I say:

Through this transference, by his comparing the time-limit with the spatial limit in his argument against the philosophers, this argument becomes invalid and we have already shown the error through which it is specious and the sophistical character of the argument, and we need not repeat ourselves.

Ghazali says:

The philosophers have a second way of forcing their opponents to admit the eternity of time. They say: You do not doubt that God was able to create the world one year, a hundred years, a thousand years, and so ad infinitum, before He created it and that those possibilities are different in magnitude and number. Therefore it is necessary to admit before the existence of the world a measurable extension, one part of which can be longer than another part, and therefore it is necessary that something should have existed before the existence of the world. If you say the word ‘years’ cannot be applied before the creation and revolution of heaven, let us drop the word ‘years’ and let us give another turn to our argument and say: If we suppose that from the beginning of the world till now the sphere of the world has performed, for instance, a thousand revolutions, was God able to create a second world before it, which, for example, would have performed eleven hundred revolutions up to now? If you deny it, it would mean that the Eternal had passed from impotence to power or the world from impossibility to possibility, but if you accept it, and you cannot but accept it, it may be asked if God was able to create a third world which would have performed twelve
hundred revolutions up to now and you will have to admit this. We philosophers say: Then, could the world which we called by the order of our supposition the third, although as a matter of fact it is the first, have been created at the same time as the world we called the second, so that the former would have performed twelve hundred revolutions and the latter eleven hundred revolutions, it being understood that both, in revolving, complete the same distance at the same speed? If you were to admit this, you would be admitting something absurd, for it would be absurd that in that case the number of the two revolutions, having the same speed and finishing at the same moment, should be different. But, if you answer that it is impossible that the third world which has up to now performed twelve hundred revolutions could have been created at the same time as the second world which has up to now performed eleven hundred revolutions, and that on the contrary it must have been created the same number of years earlier than the second, as the second has been created before the first—we call it first, as it comes first in order, when in imagination we proceed from our time to it—then there exists a quantity of possibility double that of another possibility, and there is doubtless another possibility which doubles the whole of the others. These measurable quantitative possibilities, of which some are longer than others by a definite measure, have no other reality than time, and those measurable quantities are not an attribute of the essence of God, who is too exalted to possess measure, nor an attribute of the non-existence of the world, for non-existence is nothing and therefore cannot be measured with different measures. Still, quantity is an attribute which demands a substratum, and this is nothing other than movement, and quantity is nothing but the time which measures movement. Therefore also for you theologians there existed before the world a substratum of differentiated quantity, namely time, and according to you time existed before the world.

I say:

The summary of this argument is that, when we imagine a movement, we find with it an extension which measures it, as if it were its measurement, while reciprocally the movement measures the extension, and we find that we can assume in this measure and this extension a movement longer than the first supposed movement, and we affirm through the corresponding and congruous units of this extension that the one movement is longer than the other. If therefore for you theologians the world has a certain extension from its beginning till now—let us suppose, for instance, a thousand years and since God according to you is able to create before this world another world, we may suppose that the extension He can give it will be longer than the extension of the first world by a certain definite quantity, and that He can likewise create a third world before this second and that the existence of each of them must be preceded by an extension through which its existence can be measured. If this is true, and there is an infinite regress of this possibility of anterior worlds, there is an extension which precedes all these worlds. And this extension which measures all of them cannot be absolute nonexistence, for non-existence cannot measure; it has, therefore, to be a quantity, for what measures a quantity has to be quantity itself, and the measuring quantity is that which we call time. And it is clear that this must precede in existence anything we imagine to occur, just as the measure must precede the measured in existence. If this extension which is time were to occur at the occurrence of the first movement, then it would have to be preceded by an extension which could measure it, in which it could occur, and which could be like its measurement. And in the same way any world which could be imagined would have to be preceded by an extension which measures it. Therefore this extension has no beginning, for if it had a beginning it would have to have an extension which measured it, for each event which begins has an extension which measures it and which we call time.

This is the most suitable exposition of this argument, and this is the method by which Avicenna proves infinite time, but there is a difficulty in understanding it, because of the problem that each possible has one extension and each extension is connected with its own possible and this forms a point of discussion;’ or one must concede that the possibilities prior to the world are of the same nature as the possible inside the world, i.e. as it is of the nature of this possible inside the world that time inheres in it, so also with the possible which is prior to the world. This is clear concerning the possible inside the world, and therefore the existence of time may be imagined from it.

Ghazali says:
The objection is that all this is the work of imagination, and the most convenient way of refuting it is to compare time with place; therefore we say: Was it not in God’s power to create the highest sphere in its heaven a cubit higher than He has created it? If the answer is negative, this is to deny God’s power, and if the answer is affirmative, we ask: And by two cubits and by three cubits and so on ad infinitum? Now we affirm that this amounts to admitting behind the world a spatial extension which has measure and quantity, as a thing which is bigger by two or three cubits than another occupies a space bigger by two or three cubits, and by reason of this there is behind the world a quantity which demands a substratum and this is a body or empty space. Therefore, there is behind the world empty or occupied space. And how can you answer this? And likewise we may ask, whether God was not able to create the sphere of the world smaller than He has created it by a cubit or two cubits? And is there no difference between those two magnitudes in regard to the occupied space taken away from them and the space they still occupy, for the occupied space withdrawn is bigger when two cubits are taken away than when one cubit is taken away? And therefore empty space has measure. But emptiness is nothing; how can it have measure? And our answer is: ‘It belongs to the illusion of imagination to suppose possibilities in time before the existence of the world’, just as your answer is: ‘It belongs to the illusion of imagination to suppose possibilities in space behind the existence of the world.’ There is no difference between those two points of view.’

I say:

This consequence is true against the theory which regards an infinite increase in the size of the world as possible, for it follows from this theory that a finite thing proceeds from God which is preceded by infinite quantitative possibilities. And if this is allowed for possibility in space, it must also be allowed in regard to the possibility in time, and we should have a time limited in both directions, although it would be preceded by infinite temporal possibilities. The answer is, however, that to imagine the world to be bigger or smaller does not conform to truth but is impossible. But the impossibility of this does not imply that to imagine the possibility of a world before this world is to imagine an impossibility, except in case the nature of the possible were already realized and there existed before the existence of the world only two natures, the nature of the necessary and the nature of the impossible? But it is evident that the judgement of reason concerning the being of these three natures is eternal, like its judgement concerning the necessary and the impossible.

This objection, however, does not touch the philosophers, because they hold that the world could not be smaller or bigger than it is.

If it were possible that a spatial magnitude could infinitely increase, then the existence of a spatial magnitude without end would be possible and a spatial magnitude, actually infinite, would exist, and this is impossible and Aristotle has already shown the impossibility of this.’ But against the man who believes in this possibility, because the contrary would imply a denial of God’s power, this argument is valid, for this spatial possibility is just as much a purely rational concept as the possibility of temporal anteriority according to the philosophers. Therefore, he who believes in the temporal creation of the world and affirms that all body is in space, is bound to admit that before the creation of the world there was space, either occupied by body, in which the production of the world could occur, or empty, for it is necessary that space should precede what is produced.’ The man who denies empty space and affirms the finiteness of body-like certain later Ash’arites who, however, separated themselves from the principles of the theologians; but I have not read it in their books and it was told to me by some who studied their doctrines-cannot admit the temporal production of the world. If the fact of this extension which measures movement and which stands in relation to it as its measurement were indeed the work of an illusion-like the representation of a world bigger or smaller than it really is-time would not exist, for time is nothing but what the mind perceives of this extension which measures movement. And if it is self-evident that time exists, then the act of the mind must necessarily be a veracious one, embodying reason, not one embodying illusion.

Ghazali says:

It has been objected: we declare that what is not possible is what cannot be done and increase or decrease in the size of the world is impossible, and therefore could not be brought about.
I say

This is the answer to the objection of the Ash'arites that to admit that God could not have made the world bigger or smaller is to charge Him with impotence, but they have thereby compromised themselves, for impotence is not inability to do the impossible, but inability to do what can be done.

Ghazali, opposing this, says:

This excuse is invalid for three reasons: The first is that it is an affront to reason, for when reason regards it as possible that the world might be bigger or smaller than it is by a cubit, this is not the same as regarding it as possible to identify black with white and existence with non-existence; impossibility lies in affirming the negative and the positive at the same time, and all impossibilities amount to this. This is indeed a silly and faulty assertion.'

I say:

This statement is, as he says, an affront to reason, but only to the reason of him who judges superficially; it is not an affront to true reason, for a statement about its being possible or not’ requires a proof. And therefore he is right when he declares that this is not impossible in the way in which the assumption that black might be white is impossible, for the impossibility of the latter is self-evident. The statement, however, that the world could not be smaller or larger than it is is not self-evident. And although all impossibilities can be reduced to self-evident impossibilities, this reduction can take place in two ways. The first is that the impossibility is self-evident; the second is that there follows sooner or later from its supposition an impossibility of the same character as that of self-evident impossibilities.’ For instance, if it is assumed that the world might be larger or smaller than it is, it follows that outside it there would be occupied or empty space. And from the supposition that there is outside it occupied or empty space, some of the greatest impossibilities follow: from empty space the existence of mere extension existing by itself; from occupied space a body moving either upward or downward or in a circle which therefore must be part of another world. Now it has been proved in the science of physics that the existence of another world at the same time as this is an impossibility and the most unlikely consequence would be that the world should have empty space: for any world must needs have four elements and a spherical body revolving round them. He who wants to ascertain this should look up the places where its exposition is demanded-this, of course, after having fulfilled the preliminary conditions necessary for the student to understand strict proof.

Then Ghazali mentions the second reason:

If the world is in the state it is, without the possibility of being larger or smaller than it is, then its existence, as it is, is necessary, not possible. But the necessary needs no cause. So say, then, as the materialists do that you deny the creator and that you deny the cause of causes! But this is not your doctrine.

I say:

To this the answer which, Avicenna gives in accordance with his doctrine is quite appropriate.’ According to him necessity of existence is of two kinds: the necessary, existent by itself, and the necessary, existent through another. But my answer on this question is still more to the point: things necessary in this sense need not have an agent or a maker; take, for example, a saw which is used to saw wood-it is a tool having a certain determined quantity, quality, and matter, that is, it is not possible for it to be of another material than iron and it could not have any other shape than that of a saw or any other measure than the measure of a saw. Still nobody would say that the saw has a necessity of being= See, therefore, how crude this mistake is! If one were to take away the necessity from the quantities, qualities, and matters of things produced by art, in the way the Ash’arites imagine this to happen concerning the created in relation to the creator, the wisdom which lies in the creator and the created would have been withdrawn, any agent could be an artificer and any cause in existence a creator. But all this is a denial of reason and wisdom.

Ghazali says:

The third reason is that this faulty argument authorizes its opponent to oppose it by a similar one, and we may say: The existence of the world was not possible before its existence, for indeed possibility-according to your theory-is coextensive with existence, neither more nor less. If you say: ‘But then the eternal has passed from impotence to power’, we answer:

‘No, for the existence was not possible and therefore could not be brought about
and the impossibility of a thing’s happening that could not happen does not indicate impotence.’ If you say: ‘How can a thing which is impossible become possible?’ We answer: ‘But why should it be impossible that a thing should be impossible at one moment and possible at another?’ If you say: ‘The times are similar,’ the answer is: ‘But so are the measures, and why should one measure be possible and another, bigger or smaller by the width of a nail, impossible?’ And if the latter assumption is not impossible, the former is not impossible either.’ And this is the way to oppose them.

But the true answer is that their supposition of possibilities makes no sense whatever. We concede only that God is eternal and powerful, and that His action never fails, even if He should wish it. And there is nothing in this power that demands the assumption of a temporal extension, unless imagination, confusing God’s power with other things, connects it with time.

I say:

The summary of this is that the Ash’arites say to the philosophers: this question whether the world could be larger or smaller is impossible according to us; it has sense only for the man who believes in a priority of possibility in relation to the actualization of a thing, i.e. the realization of the possible. We, the Ash’arites, however, say: ‘Possibility occurs together with the actuality as it is, without adding or subtracting anything.’

Now my answer is that he who denies the possibility of the possible before its existence denies the necessary, for the possible is the contrary of the impossible without there existing a middle term, and, if a thing is not possible before its existence, then it is necessarily impossible.’ Now to posit the impossible as existing is an impossible falsehood, but to posit the possible as existing is a possible, not an impossible, falsehood.’ Their assertion that possibility and actuality exist together is a falsehood, for possibility and actuality are contradictory, and do not exist together in one and the same moment. The necessary consequence for them is that possibility exists neither at the same time as the actuality nor before it. The true consequence for the Ash’arites in this discussion is not that the eternal passes from impotence to power, for he who cannot do an impossible act is not called impotent, but that a thing can pass from the nature of the impossible to the nature of existence, and this is like the changing of the necessary into the possible. To posit a thing, however, as impossible at one time and possible at another does not cut it off from the nature of the possible, for this is the general character of the possible; the existence of anything possible, for instance, is impossible at the moment when its contrary exists in its substratum. If the opponent concedes that a thing impossible at one time is possible at another, then he has conceded that this thing is of the nature of the absolutely possible’ and that it has not the nature of the impossible. If it is assumed that the world was impossible for an infinite time before its production, the consequence is that, when it was produced, it changed over from impossibility to possibility. This question is not the problem with which we are concerned here, but as we have said before, the transference from one problem to another is an act of sophistry.

And as to his words:

But the true answer is that their supposition of possibilities makes no sense whatever. We concede only that God is eternal and powerful and that His action never fails, even if He should wish it. And there is nothing in this power that demands the assumption of a temporal extension, unless imagination confusing God’s power with other things connects it with time.

I say:

Even if there were nothing in this supposition-as he says-that implies the eternity of time, there is something in it that demands that the possibility of the occurrence of the world and equally of time should be eternal. And this is that God never ceases to have power for action, and that it is impossible that anything should prevent His act from being eternally connected with His existence; and perhaps the opposite of this statement indicates the impossibly better still, namely, that He should have no power at one time but power at another, and that He could be called powerful only at definite limited times, although He is ark eternal and perpetual being. And then we have the old question again whether the world may be either eternal or temporal, or whether the world cannot be eternal, or whether the world cannot be temporal, or whether the world may be temporal but certainly cannot be
eternal, and whether, if the world is temporal, it can be a first act or not. And if reason has no power to pronounce for one of these opposite propositions, let us go back to tradition, but do not then regard this question as a rational one! We say that the First Cause cannot omit the best act and perform an inferior, because this would be an imperfection; but can there be a greater imperfection than to assume the act of the Eternal as finite and limited, like the act of a temporal product, although a limited act can only be imagined of a limited agent, not of the eternal agent whose existence and action are unlimited? All this, as you see, cannot be unknown to the man who has even the slightest understanding of the rational. And how can it be thought that the present act proceeding from the Eternal cannot be preceded by another act, and again by another, and so in our thinking infinitely, like the infinite continuation of His existence? For it is a necessary consequence that the act of Him whose existence time cannot measure nor comprehend in either direction cannot be comprehended in time nor measured by a limited duration. For there is no being whose act is delayed after its existence, except when there is an impediment which prevents its existence from attaining its perfection,’ or, in voluntary beings, when there is an obstruction in the execution of their choice. He, therefore, who assumes that from the Eternal there proceeds only a temporal act presumes that His act is constrained in a certain way and in this way therefore does not depend on His choice.

THE THIRD PROOF FOR THE ETERNITY OF THE WORLD

Ghazali says:
They insist on saying: The existence of the world is possible before its existence, as it is absurd that it should be impossible and then become possible; this possibility has no beginning, it is eternally unchangeable and the existence of the world remains eternally possible, for at no time whatever can the existence of the world be described as impossible; and if the possibility never ceases, the possible, in conformity with the possibility, never ceases either; and the meaning of the sentence, that the existence of the world is possible, is that the existence of the world is not impossible; and since its existence is eternally possible, it is never impossible, for if it were ever impossible, it would not be true that the existence of the world is eternally possible; and if it were not true that the existence of the world is eternally possible, it would not be true that its possibility never ceases; and if it were not true that its possibility never ceases, it would be true that its possibility had begun; and if it were true that its possibility had begun, its existence before this beginning would not be possible and that would lead to the assumption of a time when the world was not possible and God had no power over it.

I say:
He who concedes that the world before its existence was of a never-ceasing possibility must admit that the world is eternal, for the assumption that what is eternally possible is eternally existent implies no absurdity. What can possibly exist eternally must necessarily exist eternally, for what can receive eternity cannot become corruptible, except if it were possible that the corruptible could become eternal. Therefore Aristotle has said that the possibility in the eternal beings is necessary.’

Ghazali says:
The objection is that it is said that the temporal becoming of the world never ceased to be possible, and certainly there is no time at which its becoming could not be imagined. But although it could be at any time, it did not become at any time whatever, for reality does not conform to possibility, but differs from it. You yourself hold, for instance, in the matter of place, that the world could be bigger than it is or that the creation of an infinite series of bodies above the world is possible, and that there is no limit to the possibilities of increase in the size of the world, but still the actual existence of absolutely infinite occupied space and of any infinite and limitless being is impossible. What is said to be possible is an actual body of a limited surface, but the exact size of this body, whether it is larger or smaller, is not specified. In the same way, what is possible is the coming into existence of the world in time, but the exact time of its coming into existence whether earlier or later, is not specified. The principle of its having come into being is specified and this is the possible, nothing else.’

I say:
The man who assumes that before the existence of the world there was one unique, never-ceasing possibility must concede that the world is eternal. The man who affirms, like Ghazali in his answer, that before the world there was an infinite number of possibilities of worlds, has certainly to admit that before this world there was another world and before this second world a third, and so on ad infinitum, as is the case with human beings, and especially when it is assumed that the perishing of the earlier is the necessary condition for the existence of the later. For instance, if God had the power to create another world before this, and before this second world yet another, the series must continue infinitely, or else we should arrive at a world before which no other world could have been created (however, the theologians do not affirm this nor use it as a proof for the temporal production of the world). Although the assumption that before this world there might be an infinite number of others does not seem an impossible one, it appears after closer examination to be absurd, for it would follow from it that the universe had the nature of an individual person in this transitory world, so that its procession from the First Principle would be like the procession of the individual person from Him— that is to say, through an eternal moving body and an eternal motion. But then this world would be part of another world, like the transient beings in this world, and then necessarily either we end finally in a world individually eternal or we have an infinite series. And if we have to bring this series to a standstill, it is more appropriate to arrest it at this world, by regarding it as eternally unique.

THE FOURTH PROOF

Ghazali says:

The fourth proof is that they say everything that becomes is preceded by the matter which is in it, for what becomes cannot be free from matter. For this reason matter never becomes; what becomes is only the form, the accidents and the qualities which add themselves to matters. The proof is that the existence of each thing that becomes must, before its becoming, either be possible, impossible, or necessary; it cannot be impossible, for the essentially impossible will never exist; it cannot be necessary, for the essentially necessary will never be in a state of non-existence, and therefore it is the essentially possible. Therefore, the thing which becomes has before its becoming the possibility of becoming, but the possibility of becoming is an attribute which needs a relation and has no subsistence in itself. It needs, therefore, a substratum with which it can be connected, and there is no substratum except matter, and it becomes connected with it in the way in which we say this matter receives warmth and coldness, or black and white, or movement and rest, i.e. it is possible that these qualities and these changes occur in it and therefore possibility is an attribute of matter. Matter does not possess other matter, and cannot become; for, if it did, the possibility of its existence would precede its existence, and possibility would subsist by itself without being related to anything else, whereas it is a relative attribute which cannot be understood as subsisting by itself. And it cannot be said that the meaning of possibility amounts to what can be done and what the Eternal had the power to do, because we know only that a thing can be done, because it is possible, and we say ‘this can be done because it is possible and cannot be done because it is not possible’; and if ‘this is possible’ meant ‘this can be done’, to say ‘this can be done because it is possible’ would mean ‘this is possible because it is possible’, and this is a circular definition; and this shows that ‘this is possible’ is a first judgement in the mind, evident in itself, which makes the second judgement ‘that it can be done’ intelligible. It cannot be said, either, that to be possible refers to the knowledge of the Eternal, for knowledge depends on a thing known, whereas possibility is undoubtedly an object of knowledge, not knowledge; further, it is a relative attribute, and needs something to which it can be related, and this can only be matter, and everything that becomes is preceded by matter.

I say:

The summary of this is that everything that becomes is possible before it becomes, and that possibility needs something for its subsistence, namely, the substratum which receives that which is possible. For it must not be believed that the possibility of the recipient is the same as the possibility of the agent. It is a different thing to say about Zaid, the agent, that he can do something and to say

http://www.muslimphilosophy.com/ir/tt/tt-all.htm
about the patient that it can have something done to it. Thus the possibility of the patient is a necessary condition for the possibility of the agent, for the agent which cannot act is not possible but impossible. Since it is impossible that the possibility prior to the thing’s becoming should be absolutely without substratum, or that the agent should be its substratum or the thing possible-for the thing possible loses its possibility, when it becomes actual—there only remains as a vehicle for possibility the recipient of the possible, i.e. matter. Matter, in so far as it is matter, does not become; for if it did it would need other matter and we should have an infinite regress. Matter only becomes in so far as it is combined with form. Everything that comes into being comes into being from something else, and this must either give rise to an infinite regress and lead directly to infinite matter which is impossible, even if we assume an eternal mover, for there is no actual infinite; or the forms must be interchangeable in the ingenerative and incorruptible substratum, eternally and in rotation.’ There must, therefore, be an eternal movement which produces this interchange in the eternally transitory things. And therefore it is clear that the generation of the one in each pair of generated beings is the corruption of the other; otherwise a thing could come into being from nothing, for the meaning of ‘becoming’ is the alteration of a thing and its change, from what it has potentially, into actuality. It is not possible that the privation itself should change into the existent, and it is not the privation of which it is said that it has become. There exists, therefore, a substratum for the contrary forms, and it is in this substratum that the forms interchange.

Ghazali says:

The objection is that the possibility of which they speak is a judgement of the intellect, and anything whose existence the intellect supposes, provided no obstacle presents itself to the supposition, we call possible and, if there is such an obstacle, we call it impossible and, if we suppose that it cannot be supposed not to be, we call it necessary. These are rational judgements which need no real existent which they might qualify. There are three proofs of this. The first is: If possibility needed an existent to which it could be related, and of which it could be said that it is its possibility, impossibility also would need an existent of which it might be said that it is its impossibility; but impossibility has no real existence, and there is no matter in which it occurs and to which it could be related.

I say:

That possibility demands an existing matter is clear, for all true intellectual concepts need a thing outside the soul, for truth, as it has been defined, is the agreement of what is in the soul with what is outside the soul.’ And when we say that something is possible, we cannot but understand that it needs something in which this possibility can be. As regards his proof that the possible is not dependent on an existent, because the impossible is not dependent on an existent, this is sophistical. Indeed the impossible demands a substratum just as much as the possible does, and this is clear from the fact that the impossible is the opposite of the possible and opposite contraries undoubtedly require a substratum. For impossibility is the negation of possibility, and, if possibility needs a substratum, impossibility which is the negation of this possibility requires a substratum too, e.g. we say that the existence of empty space is impossible, because the existence of independent dimensions outside or inside natural bodies is impossible, or that the presence of opposites at the same time in the same substratum is impossible, or that the equivalence of one to two is impossible, i.e. in reality. All this is self-evident, and it is not necessary to consider the errors here committed.

Ghazali says:

The second proof is that the intellect decides that black and white are possible before they exist.’ If this possibility were related to the body in which they inhere, so that it might be said that the meaning is that this body can be black and white, then white would not be possible by itself and possibility would be related only to the body. But we affirm, as concerns the judgement about black in itself, as to whether it is possible, necessary, or impossible, that we, without doubt, will say that it is possible. And this shows that the intellect in order to decide whether something is possible need not admit an existing thing to which the possibility can be related.

I say

This is a sophism. For the possible is predicated of the recipient and of the inherent quality. In so far as it is predicated of the substratum, its opposite is the impossible, and in so far as it is predicated
of the inherent, its opposite is the necessary.' Thus the possible which is described as being the opposite of the impossible is not that which abandons its possibility so far as it is actualized, when it becomes actual, because this latter loses its possibility in the actualizing process. 'This latter possible is only described by possibility in so far as it is in potency, and the vehicle of this potency is the substratum which changes from existence in potency into existence in actuality.' This is evident from the definition of the possible that it is the nonexistence which is in readiness to exist or not to exist. This possible non-existent is possible neither in so far as it is non-existent nor in so far as it is actually existent. It is only possible in so far as it is in potency, and for this reason the Mu'tazilites affirm that the non-existent is a kind of entity. For non-existence is the opposite of existence, and each of the two is succeeded by the other, and when the non-existence of a thing disappears it is followed by its existence, and when its existence disappears it is succeeded by its non-existence. As non-existence by itself cannot change into existence, and existence

by itself cannot change into non-existence, there must be a third entity which is the recipient for both of them, and that is what is described by 'possibility' and 'becoming' and 'change from the quality of non-existence to the quality of existence'. For non-existence itself is not described by 'becoming' or 'change'; nor is the thing that has become actual described in this way, for what becomes loses the quality of becoming, change, and possibility when it has become actual. Therefore there must necessarily be something that can be described by 'becoming' and 'change' and 'transition from nonexistence to existence', as happens in the passage of opposites into opposites; that is to say, there must be a substratum for them in which they can interchange-with this one difference, however, that this substratum exists in the interchange of all the accidents in actuality, whereas in the substance it exists in potency.'

And we cannot think of regarding what is described by 'possibility' and 'change' as identical with the actual, i.e. which belongs to the becoming in so far as it is actual, for the former again vanishes and the latter must necessarily be a part of the product. Therefore there must necessarily be a substratum which is the recipient for the possibility and which is the vehicle of the change and the becoming, and it is this of which it is said that it becomes, and alters, and changes from non-existence into existence. Nor can we think of making this substratum of the nature of the actualized, for if this were the case the existent would not become, for what becomes comes into being from the non-existent not from the existent.' Both philosophers and Mu'tazilites agree about the existence of this entity; only the philosophers are of the opinion that it cannot be exempt from a form actually existent, i.e. that it cannot be free from existence, like the transition, for example, from sperma to blood and the transition from blood to the members of the embryo. The reason is that if it were exempt from existence it would have an existence of its own, and if it had an existence of its own, becoming could not come from it. This entity is called by the philosophers 'lyle', and it is the cause of generation and corruption. And according to the philosophers an existent which is free from Kyle is neither generable nor corruptible.

Ghazali says:

The third proof is that the souls of men, according to the philosophers, are substances which subsist by themselves' without being in a body or in matter or impressed on matters they had a beginning in time, according to the theory of Avicenna and the acknowledged philosophers, they had possibility before their beginning, but they have neither essence nor matter' and their possibility is a relative attribute, dependent neither on God's power nor on the Agent;' but on what then is it dependent? The difficulties are therefore turned against them themselves.

I say:

I do not know any philosopher who said that the soul has a beginning in the true sense of the word and is thereafter everlasting except -as Ghazali relates-Avicenna. All other philosophers agree that in their temporal existence they are related to and connected with the bodily possibilities, which receive this connexion like the possibilities which subsist in mirrors for their connexion with the rays of the suns According to the philosophers this possibility is not of the nature of the generable and corruptible forms, but of a kind to which, according to them, demonstrative proof leads, and the vehicle of this possibility is of another nature than the nature of the Kyle. He alone can grasp their theories in these matters who has read their books and fulfilled the conditions there laid down by them, and has besides a sound understanding and a learned master. That Ghazali should touch on such
questions in this way is not worthy of such a man, but there are only these alternatives: either he knew these matters in their true nature, and sets them out here wrongly, which is wicked; or he did not understand their real nature and touched on problems he had not grasped, which is the act of an ignoramus. However, he stands too high in our eyes for either of these qualifications. But even the best horse will stumble’ and it was a stumble of Ghazali’s that he brought out this book. But perhaps he was forced to do so by the conditions of his time and his situation.

Ghazali says, speaking on behalf of the philosophers:

It may be said: To reduce possibility to a judgement of the intellect is absurd, for the meaning of ‘judgement of the intellect’ is nothing but the knowledge of possibility, and possibility is an object of knowledge, not knowledge itself; knowledge, on the contrary, comprises possibility and follows it and depends on it as it is, and if knowledge vanished the object of knowledge would not, but the disappearance of the object of knowledge would imply the disappearance of knowledge. For knowledge and the object-known are two things, the former dependent on the latter, and if we supposed rational beings to turn away from possibility and neglect it, we should say: ‘It is not possibility that is annulled, for the possibilities subsist by themselves, but it is simply that minds neglect them or that minds and rational beings have disappeared; but possibility remains, without any doubt.’ And the three proofs are not valid, for impossibility requires an existent to which it can be related, and impossibility means identifying two opposites, and if the substratum were white it could not become black as long as the white existed, and therefore we need a substratum, qualified by the quality during the inherence of which its opposite is spoken of as impossible in this substratum, and therefore impossibility is a relative attribute subsistent in a substratum and related to it. And where the necessary is concerned it is evident that it is related to necessary existence.

As concerns the second proof, that black is in itself possible, this is a mistake, for if it is taken, abstracted from the substratum in which it inheres, it is impossible, not possible; it only becomes possible when it can become a form in a body; the body is then in readiness for the interchange, and the interchange is possible for the body; but in itself black has no individuality, so as to be characterizable by possibility.

As concerns the third proof about the soul, it is eternal for one school of philosophers, and is only possible in the attaching of itself to bodies, and therefore against those philosophers the argument does not apply= But for those who admit that the soul comes into existence-and one school of philosophers has believed that it is impressed on matter and follows its temperament, as is indicated by Galen in certain passages-it comes into existence in matter and its possibility is related to its matter.’ And according to the theory of those who admit that it comes into existence, although it is not impressed on matter-which means that it is possible for the rational soul to direct matter-the possibility prior to the becoming is relative to matter , and although the soul is not impressed on matter, it is attached to it, for it is its directing principle and uses it as an instrument, and in this way its possibility is relative to matters.

I say
What he says in this section is true, as will be clear to you from our explanation of the nature of the possible.

Then Ghazali, objecting to the philosophers, says:

And the answer is: To reduce possibility, necessity, and impossibility to rational concepts is correct, and as for the assertion that the concepts of reason form its knowledge, and knowledge implies a thing known, let them be answered: it cannot be said that receptivity of colour and animality and the other concepts, which are fixed in the mind according to the philosophers-and this is what constitutes the sciences-have no objects ; still these objects have no real existence in the external world, and the philosophers are certainly right in saying that universals exist only in the mind, not in the external world, and that in the external world there are only particular individuals, which are apprehended by the senses, not by reason; and yet these individuals are the reason why the mind abstracts from them a concept separated from its rational matter;
therefore receptivity of colour is a concept, separate in the mind from blackness and whiteness, although in reality a colour which is neither black nor white nor of another colour cannot be imagined,’ and receptivity of colour is fixed in the mind without any specification—now, in the same way, it can be said that possibility is a form which exists in minds, not in the exterior world, and if this is not impossible for other concepts, there is no impossibility in what we have said.

I say:

This argument is sophistical because possibility is a universal which has individuals outside the mind like all the other universals, and knowledge is not knowledge of the universal concept, but it is a knowledge of individuals in a universal way which the mind attains in the case of the individuals, when it abstracts from them one common nature which is distributed among the different matters. The nature, therefore, of the universal is not identical with the nature of the things of which it is a universal. Ghazali is here in error, for he assumes that the nature of possibility is the nature of the universal, without there being individuals on which this universal, i.e. the universal concept of possibility, depends. The universal, however, is not the object of knowledge; on the contrary through it the things become known, although it exists potentially in the nature of the things known; otherwise its apprehension of the individuals, in so far as they are universals, would be false.

This apprehension would indeed be false if the nature of the object known were essentially individual, not accidentally individual, whereas the opposite is the case: it is accidentally individual, essentially universal. Therefore if the mind did not apprehend the individuals in so far as they are universal, it would be in error and make false judgements about them. But if it abstracts those natures which subsist in the individual things from their matter, and makes them universal, then it is possible that it judges them rightly; otherwise it would confuse those natures, of which the possible is one.

The theory of the philosophers that universals exist only in the mind, not in the external world, only means that the universals exist actually only in the mind, and not in the external world, not that they do not exist at all in the external world, for the meaning is that they exist potentially, not actually in the external world; indeed, if they did not exist at all in the outside world they would be false. Since universals exist outside the mind in potency and possibilities exist outside the soul in potency, the nature of universals in regard to this resembles that of possibilities. And for this reason Ghazali tried to deceive people by a sophism, for he compared possibility to the universals because of their both being potentially in reality, and then he assumed that the philosophers assert that universals do not exist at all outside the soul; from which he deduced that possibility does not exist outside the soul. What an ugly and crude sophism!

Ghazali says:

As regards their assertion that, if it were assumed that rational beings had vanished or had neglected possibility, possibility itself would not have disappeared, we answer: ‘If it were assumed that they had vanished, would not the universal concepts, i.e. the genera and species, have disappeared too?’ and if they agree to this, this can only mean that universals are only concepts in the mind; but this is exactly what we say about possibility, and there is no difference between the two cases; if they, however, affirm that they are permanent in the knowledge of God,’ the same may be said about possibility, and the argument is valid, and our aim of showing the contradiction in this theory has been attained.

I say:

This argument shows his foolishness and proneness to contradiction. The most plausible form in which it might be expressed would be to base it on two premisses: the first, that the evident proposition that possibility is partially individual, namely, outside the soul, partially universal, namely, the universal concept of the individual possibles, is not true; and the second, that it was said that the nature of the individual possibles outside the soul is identical with the nature of the universal of possibility in the mind; and in this case the possible would have neither a universal nor an individual nature, or else the nature of the individual would have to be identical with that of the universal. All this is presumptuous, and how should it be else, for in a way the universal has an existence outside the soul.

Ghazali says:
And as regards their subterfuge where the impossible is concerned, that it is related to the matter qualified by its opposite, as it cannot take the place of its opposite this cannot be the case with every impossible, for that God should have a rival is impossible, but there is no matter to which this impossibility could be related. If they say the impossibility of God’s having a rival, means that the solitude of God in His essence and His uniqueness are necessary and that this solitude is proper to Him, we answer: This is not necessary, for the world exists with Him, and He is therefore not solitary. And if they say that His solitude so far as a rival is concerned is necessary, and that the opposite of the necessary is the impossible, and that the impossible is related to Him, we answer: In this case the solitude of God in regard to the world is different from His solitude in regard to His equal and in this case His solitude in regard to His rival is necessary, and in regard to the created world not necessary.’

I say:

All this is vain talk, for it cannot be doubted that the judgments of the mind have value only in regard to the nature of things outside the soul. If there were outside the soul nothing possible or impossible, the judgment of the mind that things are possible or impossible, the judgment of the mind that things are possible or impossible would be of as much value as no judgment at all, and there would be no difference between reason and illusion. And that there should be a rival to God is just as impossible in reality as God’s existence is necessary in reality. But there is no sense in wasting more words on this question.

Ghazali says:

The subterfuge concerning the becoming of the souls is worthless too, for they have individual essences and a possibility prior to their becoming, and at that time there is nothing with which they could be brought into relation. Their argument contends that it is possible for matter that the souls direct it is a remote relation and, if this satisfies you, you might as well say that the possibility of the souls becoming lies in the power of Him who can on His own authority produce them, for the souls are then related to the Agent—although they are not impressed on Him—in the same way as to the body, on which they are not impressed either. And since the imprint is made neither on the one substrate nor on the other, there is no difference between the relation to the agent and that to the patient.

I say:

He wants to force those who assume the possibility of the soul’s becoming without there being an imprint in matter to concede that the possibility in the recipient is like the possibility in the agent, because the act proceeds from the agent and therefore these two possibilities are similar. But this is a shocking supposition, for, according to it, the soul would come to the body as if it directed it from the outside, as the artisan directs his product, and the soul would not be a form in the body, just as the artisan is not a form in his product. The answer is that it is not impossible that there should be amongst the entelechies which conduct themselves like forms something that is separate from its substratum as the steersman is from his ships and the artisan from his tool, and if the body is like the instrument of the soul, the soul is a separate form, and then the possibility which is in the instrument is not like the possibility which is in the agent; no, the instrument is in both conditions, the possibility which is in the patient and the possibility which is in the agent, and therefore the instruments are the mover and the moved, and in so far as they are the mover, there is in them the possibility which is in the agent, and in so far as they are moved, the possibility which is in the recipient. But the supposition that the soul is a separate entity does not force them into the admission that the possibility which is in the recipient is identical with the possibility which is in the agent. Besides, the possibility which according to the philosophers is in the agent is not only a rational judgement, but refers to something outside the soul. Therefore his argument does not gain by assimilating one of these two possibilities to the other. And since Ghazali knew that all these arguments have no other effect than to bring doubts and perplexity to those who cannot solve them—which is an act of wicked sophists, he says:

And if it is said you have taken good care in all your objections to oppose the difficulties by other difficulties, but nothing of what you yourself have adduced is free from difficulty, we answer: the objections do show the falsity of an argument, no doubt, and certain aspects of the problem are solved in stating the opposite view and
its foundation. We have not committed ourselves to anything more than to upsetting their theories, and to showing the faults in the consequence of their proofs so as to demonstrate their incoherence. We do not seek to attack from any definite point of view, and we shall not transgress the aim of this book, nor give full proofs for the temporal production of the world, for our intention is merely to refute their alleged knowledge of its eternity. But after finishing this book we shall, if it pleases God, devote a work to establishing the doctrine of truth, and we call it ‘The Golden Mean in Dogmatic Beliefs’, in which we shall be engaged in building up, as in this book we have been in destroying.

I say:

To oppose difficulty with difficulty does not bring about destruction, but only perplexity and doubts in him who acts in this way, for why should he think one of the two conflicting theories reasonable and the opposite one vain? Most of the arguments with which this man Ghazali opposes the philosophers are doubts which arise when certain parts of the doctrine of the philosophers come into conflict with others, and when those differences are compared with each other; but this is an imperfect refutation. A perfect refutation would be one that succeeded in showing the futility of their system according to the facts themselves, not such a one as, for instance, his assumption that it is permissible for the opponents of the philosophers to claim that possibility is a mental concept in the same way as the philosophers claim this for the universal. For if the truth of this comparison between the two were conceded, it would not follow that it was untrue that possibility was a concept dependent on reality, but only either that the universal existed in the mind only was not true, or that possibility existed in the mind only was not true. Indeed, it would have been necessary for him to begin by establishing the truth, before starting to perplex and confuse his readers, for they might die before they could get hold of that book, or he might have died himself before writing it. But this book has not yet come into my hands’ and perhaps he never composed it, and he only says that he does not base this present book on any doctrine, in order that it should not be thought that he based it on that of the Ash’arites. It appears from the books ascribed to him that in metaphysics he recurs to the philosophers. And of all his books this is most clearly shown and most truly proved in his book called The Niche for Lights.

THE SECOND DISCUSSION

THE REFUTATION OF THEIR THEORY OF THE INCORRUPTIBILITY OF THE WORLD AND OF TIME AND MOTION

Ghazali says:

Know that this is part of the first question, for according to the philosophers the existence of the world, having no beginning, does not end either; it is eternal, without a final term. Its disappearance and its corruption cannot be imagined; it never began to exist in the condition in which it exists’ and it will never cease to exist in the condition in which it exists.

Their four arguments which we have mentioned in our discussion of its eternity in the past refer also to its eternity in the future, and the objection is the same without any difference. They say that the world is caused, and that its cause is without beginning or end, and that this applies both to the effect and to the cause, and that, if the cause does not change, the effect cannot change either; upon this they build their proof of the impossibility of its beginning, and the same applies to its ending. This is their first proof.

The second proof is that an eventual annihilation of the world must occur alter its existence, but ‘after’ implies an affirmation of time.

The third proof is that the possibility of its existence does not end, and that
therefore its possible existence may conform to the possibility.’ But this argument has no force, for we regard it as impossible that the world should not have begun, but we do not regard it as impossible that it should last eternally, if God should make it last eternally, for it is not necessary that what begins has also an end, although it is necessary for an act to have a beginning and an initial term. Only Abu Hudhail al-Allaf thought that the world must needs have an end, and he said that, as in the past infinite circular movements are impossible, so they are in the future s but this is wrong, for the whole of the future never enters into existence either simultaneously or successively, whereas the whole of the past is there simultaneously but not successively.’ And since it is clear that we do not regard the incorruptibility of the world as impossible from a rational point of view—we regard indeed its incorruptibility and corruptibility as equally possible—we know only through the Divine Law which of the two possibilities will be realized. Therefore let us not try to solve this problem by mere reason!

I say:

His assertion that the argument of the philosophers for the eternity of the world in the past applies also to its eternity in the future is true, and equally the second argument applies to both cases. But his assertion that the third argument is not equally valid for the future and for the past, that indeed we regard the becoming of the world in the past as impossible, but that with the exception of Abu Hudhail al-Allaf, who thought that the eternity of the world was impossible in either direction, we do not regard its eternity in the future as absolutely impossible, is not true. For when it was conceded to the philosophers that the possibility of the world had no beginning and that with this possibility a condition of extension, which could measure this possibility, was connected in the same way as this condition of extension is connected with the possible existent, when it is actualized, and it was also evident that this extension had no initial term, the philosophers were convinced that time had no initial term, for this extension is nothing but time, and to call it timeless eternities is senseless. And since time is connected with possibility and possibility with existence in motion, existence in motion has no first term either. And the assertion of the theologians that everything which existed in the past had a first term is futile, for the First exists in the past eternally, as it exists eternally in the future. And their distinction here between the first term and its acts requires a proof, for the existence of the temporal which occurs in the past is different from the existence of the eternal which occurs in the past. For the temporal which has occurred in the past is finite in both directions, i.e. it has a beginning and an end, but the eternal which has occurred in the past has neither beginning nor end.’ And therefore, since the philosophers have not admitted that the circular movement has a beginning, they cannot be forced to admit that it has an end, for they do not regard its existence in the past as transitory, and, if some philosopher does regard it as such, he contradicts himself and therefore the statement is true that everything that has a beginning has an end. That anything could have a beginning and no end is not true, unless the possible could be changed into the eternal, for everything that has a beginning is possible. And that anything could be liable to corruption and at the same time could be capable of eternity is something incomprehensible’ and stands in need of examination. The ancient philosophers indeed examined this problem, and Abu Hudhail agrees with the philosophers in saying that whatever can be generated is corruptible, and he kept strictly to the consequence which follows from the acceptance of the principle of becoming. As to those who make a distinction between the past and the future, because what is in the past is there in its totality, whereas the future never enters into existence in its totality (for the future enters reality only successively), this is deceptive, for what is in reality past is that which has entered time and that which has entered time has time beyond it in both directions and possesses totality. But that which has never entered the past in the way the temporal enters the past can only be said in an equivocal way to be in the past; it is infinitely extended, with the past rather than in the past, and possesses no totality in itself, although its parts are totalities. And this, if it has no initial term beginning in the past, is in fact time itself. For each temporal beginning is a present, and each present is preceded by a past, and both that which exists commensurable with time, and time commensurable with it, must necessarily be infinite. Only the parts of time which are limited by time in both directions can enter the past, in the same way as only the instant which is everchanging and only the instantaneous motion of a thing in movement in the spatial magnitude in which it moves can really enter the existence of the moved.’ And just as we do not say that the past of what never ceased to exist in the past ever entered existence at an instant-
for this would mean that its existence had a beginning and that time limited it in both directions—so it stands with that which is simultaneous with time, not in time. For of the circular movements only those that time limits enter into represented existence,’ but those that are simultaneous with time do not afterwards enter past existence, just as the eternally existent does not enter past existence, since no time limits it. And when one imagines an eternal entity whose acts are not delayed after its existence—indeed must be the case with any entity whose existence is perfect—then, if it is eternal and does not enter past time, it follows necessarily that its acts also cannot enter past time, for if they did they would be finite and this eternal existent would be eternally inactive and what is eternally inactive is necessarily impossible. And it is most appropriate for an entity, whose existence does not enter time and which is not limited by time, that its acts should not enter existence either, because there is no difference between the entity and its acts. If the movements of the celestial bodies and what follows from them are acts of an eternal entity, the existence of which does not enter the past, then its acts do not enter past time either. For it is not permissible to say of anything that is eternal that it has entered past time, nor that it has ended, for that which has an end has a beginning. For indeed, our statement that it is eternal means the denial of its entering past time and of its having had a beginning. He who, assuming that it entered past time, assumes that it must have a beginning begs the question. It is, therefore, untrue that what is coexistent with eternal existence, has entered existence, unless the eternal existence has entered existence by entering past time. Therefore our statement ‘everything past must have entered existence’ must be understood in two ways: first, that which has entered past existence must have entered existence, and this is a true statement; secondly, that which is past and is inseparably connected with eternal existence cannot be truly said to have entered existence, for our expression ‘entered existence’ is incompatible with our expression ‘connected with eternal existence’. And there is here no difference between act and existence. For he who concedes the existence of an entity which has an eternal past must concede that there exist acts, too, which have no beginning in the past. And it by no means follows from the existence of His acts that they must have entered existence, just as it by no means follows from the past permanency of His essence that He has ever entered existence. And all this is perfectly clear, as you see.

Through this First Existent acts can exist which never began and will never cease, and if this were impossible for the act, it would be impossible, too, for existence, for every act is connected with its existent in existence. The theologians, however, regarded it as impossible that God’s act should be eternal, although they regarded His existence as eternal, and that is the gravest error. To apply the expression ‘production’ for the world’s creation as the Divine Law does is more appropriate than to use it of temporal production, as the Ash’arites did,’ for the act, in so far as it is an act, is a product, and eternity is only represented in this act because this production and the act produced have neither beginning nor end. And I say that it was therefore difficult for Muslims to call God eternal and the world eternal, because they understood by ‘eternal’ that which has no cause. Still I have seen some of the theologians tending rather to our opinion.

Ghazali says:

Their fourth proof is similar to the third, for they say that if the world were annihilated the possibility of its existence would remain, as the possible cannot become impossible. This possibility is a relative attribute and according to them everything that becomes needs matter which precedes it and everything that vanishes needs matter from which it can vanish, but the matter and the elements do not vanish, only the forms and accidents vanish which were in them.

I say:

If it is assumed that the forms succeed each other in one substratum in a circular way and that the agent of this succession is an eternal one, nothing impossible follows from this assumption. But if this succession is assumed to take place in an infinite number of matters or through an infinite number of specifically different forms, it is impossible, and equally the assumption is impassible that such a succession could occur without an eternal agent or through a temporal agent. For if there were an infinite number of matters, an actual infinite would exist, and this is impossible. It is still more absurd to suppose that this succession could occur through temporal agents, and therefore from this point of view it is only true that a man must become from another man, on condition that the successive series happens in one and the same matter and the perishing of the curlier men can become the matter of the later. Besides, the existence of the earlier men is also in some respect the efficient cause and the
instrument for the later—all this, however, in an accidental way, for those men are nothing but the instrument for the Agent, who does not cease to produce a man by means of a man and through the matter of a man. The student who does not distinguish all these points will not be able to free himself from insoluble doubts. Perhaps God will place you and us among those who have reached the utmost truth concerning what may and must be taught about God’s infinite acts. What I have said about all these things is not proved here, but must be examined by the application of the conditions which the ancients have explained and the rules which they have established for scientific research. Besides, he who would like to be one of those who possess the truth should in any question he examines consult those who hold divergent opinions.’

Ghazali says:

The answer to all this has been given above. I only single out this question because they have two proofs for it.

The first proof is that given by Galen, who says: If the sun, for instance, were liable to annihilation, decay would appear in it over a long period. But observation for thousands of years shows no change in its size and the fact that it has shown no loss of power through such a long time shows that it does not suffer corruption.’ There are two objections to this: The first is that the mode of this proof—that if the sun suffers corruption, it must suffer loss of power, and as the consequence is impossible the antecedent must be impossible too—is what the philosophers call a conjunctive hypothetical proposition,’ and this inference is not conclusive, because its antecedent is not true, unless it is connected with another condition. In other words the falsehood of the consequence of the proposition ‘if the sun suffers corruption, it must become weaker’ does not imply the falsehood of the antecedent, unless either (z) the antecedent is bound up with the additional condition that, if it suffers corruption through decay, it must do so during a long period, or () it is seriously proved that there is no corruption except through decay. For only then does the falsehood of the consequence imply the falsehood of the antecedent. Now, we do not concede that a thing can only become corrupt through decay; decay is only one form of corruption, for it is not impossible that what is in a state of perfection should suddenly suffer corruption.

I say:

He says in his objection here to this argument that there is no necessary relation between antecedent and consequent, because that which suffers corruption need not become weaker, since it can suffer corruption before it has become weaker. The conclusion, however, is quite sound, when it is assumed that the corruption takes place in a natural way, not by violence, and it is assumed besides that the celestial body is an animal, for all animals super corruption only in a natural way—they necessarily decay before their corruption. However, our opponents do not accept these premisses, so far as they concern heaven, without proof. And therefore Galen’s statement is only of dialectical value. The safest way to use this argument is to say that, if heaven should suffer corruption, it would either disintegrate into the elements of which it is composed or, losing the form it possesses, receive another, as happens with the four elements when they change into one another. If, however, heaven passed away into the elements, those elements would have to be part of another world, for it could not have come into being from the elements contained in this world, since these elements are infinitely small, compared with its size, something like a point in relation to a circle.’ Should heaven, however, lose its form and receive another there would exist a sixth element opposed to all the others, being neither heaven, nor earth, nor water, nor air, nor fire. And all this is impossible. And his statement that heaven does not decay; is only a common opinion, lacking the force of the immediately evident axioms; and it is explained in the Posterior Analytics of what kind these premisses are

Ghazali says:

The second objection is that, if it were conceded to Galen that there is no corruption except through decay, how can it be known that decay does not affect the sun? His reliance on observation is impossible, for observations determine the size only by approximation, and if the sun, whose size is said to be approximately a hundred and seventy times that of the earth, decreased, for instance, by the size of mountains the difference would not be perceptible to the senses. Indeed, it is perhaps
already in decay, and has decreased up to the present by the size of mountains or
more; but perception cannot ascertain this, for its knowledge in the science of optics
works only by supposition and approximation. The same takes place with sapphire and
gold, which, according to them, are composed out of elements and which are liable to
corruption. Still, if you left a sapphire for a hundred years, its decrease would be
imperceptible, and perhaps the decrease in the sun during the period in which it has
been observed stands in proportion to its size as the decrease of the sapphire to its size
in a hundred years. This is imperceptible, and this fact shows that his proof is utterly
futile.

We have abstained from bringing many proofs of the same kind as the wise
disdain. We have given only this one to serve as an example of what we have omitted,
and the have restricted ourselves to the four proofs which demand that their solution
should be attempted in the way indicated above.

I say:

If the sun had decayed and the parts of it which had disintegrated during the period of its
observation were imperceptible because of the size of its body, still the effect of its decay on bodies in
the sublunary world would be perceptible in a definite degree, for everything that decays does so only
through the corruption and disintegration of its parts, and those parts which disconnect themselves
from the decaying mass must necessarily remain in the world in their totality or change into other
parts, and in either case an appreciable change must occur in the world, either in the number or in the
character of its parts. And if the size of the bodies could change, their actions and affections would
change too, and if their actions and affections, and especially those of the heavenly bodies, could
change, changes would arise in the sublunary world. To imagine, therefore, a dissipation of the
heavenly bodies is to admit a disarrangement in the divine order which, according to the philosopher,
prevails in this world. This proof is not absolutely strict.

Ghazali says:

The philosophers have a second proof of the impossibility of the annihilation of the
world. They say: The substance of the world could not be annihilated, because no
cause could be imagined for this and the passage from existence to non-existence
cannot take place without a cause. This cause must be either the Will of the Eternal,
and this is impossible, for if He willed the annihilation of the world after not having
willed it, He would have changed; or it must be assumed that God and His Will are in
all conditions absolutely the same, although the object of His Will changes from non-
existence to existence and then again from existence to non-existence. And the
impossibility of which we have spoken in the matter of a temporal existence through
an eternal will, holds also for the problem of annihilation. But we shall add here a still
greater difficulty, namely, that the object willed is without doubt an act of the wiper,
for the act of him who acts after not having acted—even if he does not alter in his own
nature—must necessarily exist after having not existed: if he remained absolutely in the
state he was in before, his act would not be there. But when the world is annihilated,
there is no object for God’s act, and if He does not perform anything (for annihilation
is nothing), how could there be an action? Suppose the annihilation of the world
needed a new act in God which did not exist before, what could such an act be? Could
it be the existence of the world? But this is impossible, since what happens is on the
contrary the termination of its existence. Could this act then be the annihilation of the
world? But annihilation is nothing at all, and it could therefore not be an act. For even
in its slightest intensity an act must be existent, but the annihilation of the world is
nothing existent at all: how could it then be said that he who caused it was an agent, or
he who effected it its cause?

The philosophers say that to escape this difficulty the theologians are divided into
four sects and that each sect falls into an absurdity.

I say:

He says here that the philosophers compel the theologians who admit the annihilation of the world
to draw the consequence that from the Eternal, who produced the world, there proceeds a new act, i.e.
the act of annihilation, just as they compelled them to draw this consequence in regard to His
temporal production. About this problem everything has been said already in our discussion of
temporal production, for the same difficulties as befall the problem of production apply to
annihilation, and there is no sense in repeating ourselves. But the special difficulty he mentions here
is that from the assumption of the world’s temporal production it follows that the act of the agent
attaches itself to non-existence, so that in fact the agent performs a non-existing act and this seemed
to all the parties too shocking to be accepted, and therefore they took refuge in theories he mentions
later. But this consequence follows necessarily from any theory which affirms that the act of the agent
is connected with absolute creation—that is, the production of something that did not exist before in
potency and was not a possibility which its agent converted from potency into actuality, a theory
which affirms in fact that the agent created it out of nothing. But for the philosophers the act of the
agent is nothing but the actualizing of what is in potency, and this act is, according to them, attached
to an existent in two ways, either in production, by converting the thing from its potential existence
into actuality so that its non-existence is terminated, or in destruction, by converting the thing from
its actual existence into potential existence, so that it passes into a relative non-existence. But he who
does not conceive the act of the agent in this way has to draw the consequence that the agent’s act is
attached to non-existence in both ways, in production as in destruction; only as this seems clearer in
the case of destruction, the theologians could not defend themselves against their opponents. For it is
clear that for the man who holds the theory of absolute annihilation the agent must perform something
non-existent, for when the agent converts the thing from existence into absolute non-existence, he
directs his first intention to something non-existent, by contrast with what happens when he converts
it from actual existence into potential existence; for in this conversion the passage into non-existence
is only a secondary fact. The same consequence applies to production, only here it is not so obvious,
for the existence of the thing implies the annulment of its non-existence, and therefore production is
nothing but the changing of the non-existence of a thing into its existence; but since this movement is
directed towards production, the theologians could say that the act of the agent is attached solely to
production. They could not, however, say this in regard to destruction, since this movement is
directed towards non-existence. They have, therefore, no right to say that in production the act of the
agent attaches itself only to production, and not to the annulment of non-existence, for in production
the annulment of non-existence is necessary, and therefore the act of the agent must necessarily be
attached to non-existence. For according to the doctrine of the theologians, the existent possesses only
two conditions: a condition in which it is absolutely non-existent and a condition in which it is
actually existent,. The act of the agent, therefore, attaches itself to it, neither when it is actually
existent, nor when it is non-existent. Thus only the following alternatives remain: either the act of the
agent does not attach itself to it at all, or it attaches itself to non-existence, and non-existence
changes itself into existence. He who conceives the agent in this way must regard the change of
nonexistence itself into existence, and of existence itself into non-existence, as possible, and must
hold that the act of the agent can attach itself to the conversion of either of these opposites into the
other. This is absolutely impossible in respect to the other opposites, not to speak of non-existence
and existence.

The theologians perceived the agent in the way the weaksighted perceive the shadow of a thing
instead of the thing itself and then mistake the shadow for it. But, as you see, all these difficulties
arise for the man who has not understood that production is the conversion of a thing from potential
into actual existence, and that destruction is the reverse, i.e. the change from the actual into the
potentials It appears from this that possibility and matter are necessarily connected with anything
becoming, and that what is subsistent in itself can be neither destroyed nor produced.

The theory of the Ash’arites mentioned here by Ghazali, which regards the production of a
substance, subsistent in itself, as possible, but not so its destruction, is an extremely weak one, for the
consequences which apply to destruction apply also to production, only, it was thought, because in
the former case it is more obvious that there was here a real difference. He then mentions the answers
of the different sects to the difficulty which faces them on the question of annihilation.

Ghazali says:

The Mu’tazilites say: the act proceeding from Him is an existent, i.e. extinction,
which He does not create in a substratum; at one and the same moment it annihilates
the whole world and disappears by itself, so that it does not stand in need of another
extinction and thus of an infinite regress.
And mentioning this answer to the difficulty, he says:

This is wrong for different reasons. First, extinction is not an intelligible existent, the creation of which can be supposed. Moreover, why, if it is supposed to exist, does it disappear by itself without a cause for its disappearance? Further, why does it annihilate the world? For its creation and inherence in the essence of the world are impossible, since the inherent meets its substratum and exists together with it if only in an instant; if the extinction and existence of the world could meet, extinction would not be in opposition to existence and would not annihilate it; and, if extinction is created neither in the world nor in a substratum, where could its existence be in order to be opposed to the existence of the world? Another shocking feature in this doctrine is that God cannot annihilate part of the world without annihilating the remainder; indeed He can only create an extinction which annihilates the world in its totality, for if extinction is not in a substratum, it stands in one and the same relation to the totality of the world.

I say:

The answer is too foolish to merit refutation. Extinction and annihilation are synonymous, and if God cannot create annihilation, He cannot create extinction either. And even if we suppose extinction to be an existent, it could at most be an accident, but an accident without a substratum is absurd. And how can one imagine that the non-existent causes non-existence? All this resembles the talk of the delirious.

Ghazali says:

The second sect, the Karramites, say that the act of God is annihilation, and annihilation signifies an existent which He produces in His essence and through which the world becomes non-existent. In the same way, according to them, existence arises out of the act of creation which He produces in His essence and through which the world becomes existent. Once again, this theory is wrong as it makes the Eternal a substratum for temporal production. Further it is incomprehensible, for creation and likewise annihilation cannot be understood except as an existence, related to will and power, and to establish another entity besides the will and the power and their object, the world, is inconceivable.

I say:

The Karramites believe that there are here three factors: the agent, the act—which they call creation—and an object, i.e. that to which the act attaches itself, and likewise they believe that in the process of annihilation there are three factors: the annihilator, the act—which they call annihilation—and a non-existent. They believe that the act inheres in the essence of the agent and according to them the rise of such a new condition in the agent does not imply that the agent is determined by a temporal cause, for such a condition is of a relative and proportional type, and a new relation and proportion does not involve newness in the substratum; only those new events involve a change in the substratum which change the essence of the substratum, e.g. the changing of a thing from whiteness to blackness. Their statement, however, that the act inheres in the essence of the agent is a mistake; it is only a relation which exists between the agent and the object of the act which, when assigned to the agent, is called ‘act’ and when assigned to the object is called ‘passivity.’ Through this assumption the Karramites are not obliged to admit that, as the Ash’arites believed, the Eternal produces temporal reality or that the Eternal is not eternal, but the consequence which is forced upon them is that there must be a cause anterior to the Eternal, for, when an agent acts after not having acted, all the conditions for the existence of his object being fulfilled at the time he did not act, there must have arisen a new quality in the agent at the time when he acts, and each new event demands a new cause. So there must be another cause before the first, and so on ad infinitum.

Ghazali says:

The third sect is that of the Ash’arites, who say that accidents pass away by themselves and cannot be imagined to persist, for if they persisted they could not, for this very reason, be imagined ever to pass away. Substances do not persist by themselves either, but persist by a persistence added to their existence. And if God had not created persistence, substances would have become non-existent through the nonexistence of persistence. This too is wrong, in so far as it denies the evidence of the
senses by saying that black and white do not persist and that their existence is continually renewed; reason shrinks from this, as it does, too, from the statement that the body renews its existence at each moment, for reason judges that the hair which is on a man’s head today is identical with, not similar to, the hair that was there yesterday, and judges the same about the black and the white.’ There is yet another difficulty, namely, that when things persist through persistence, God’s attributes must persist through persistence and this persistence persists through persistence and so on ad finitum.

I say:

This theory of the flux of all existing things is a useless one, although many ancients held it, and there is no end to the impossibilities it implies. How could an existent come into existence, when it passes away by itself and existence passes away through its passing away? If it passed away by itself, it would have to come into existence by itself, and in this case that by which it becomes existent would be identical with that by which it passes away and this is impossible. For existence is the opposite of passing away, and it is not possible that two opposites should occur in the same thing in one and the same connexion. Therefore in a pure existent no passing away can be imagined, for if its existence determined its passing away, it would be non-existent and existent at one and the same moment, and this is impossible. Further, if the existents persist through the persistence of an attribute by itself, will this absence of change in them occur through their existence or through their non-existence? The latter is impossible, so it follows that they persist because of their existence. If, then, all existents must persist because they are existent, and non-existence is something that can supervene upon them, why in Heaven’s name do we need this attribute of persistence to make them persist? All this resembles a case of mental disorder. But let us leave this sect, for the absurdity of their theory is too clear to need refutation.

Ghazali says:

The fourth sect are a group of Ash’arites who say that accidents pass away by themselves, but that substances pass away when God does not create motion or rest or aggregation and disintegration in them, for it is impossible that a body should persist which is neither in motion nor at rest, since in that case it becomes non-existent. The two parties of the Ash’arites incline to the view that annihilation is not an act, but rather a refraining from acting, since they do not understand how non-existence can be an act. All these different theories being false—say the philosophers—it cannot any longer be asserted that the annihilation of the world is possible, even if one were to admit that the world had been produced in time; for although the philosophers concede that the human soul has been produced, they claim the impossibility of its annihilation by means of arguments which are very close to those we have mentioned. For, according to the philosophers, nothing that is self-subsistent and does not inhere in a substratum’ can be imagined as becoming non-existent after its existence, whether it is produced or eternal.’ If one objects against them, that when water is boiled it disappears, they answer that it does not disappear, but is only changed into steam and the steam becomes water again, and its primary matter, i.e. its hyle, the matter in which the form of water inhered, persists when the water has become air, for the hyle only loses the form of water and takes up that of air; the air, having become cold again, condenses into water, but does not receive a new matter, for the matter is common to the elements and only the forms are changed in it.

I say:

He who affirms that accidents do not persist for two moments, and that their existence in substances is a condition of the persistence of those substances, does not know how he contradicts himself, for if the substances are a condition of the existence of the accidents—since the accidents cannot exist without the substances in which they inhere—and the accidents are assumed to be a condition for the existence of the substances, the substances must be necessarily a condition for their own existence; and it is absurd to say that something is a condition for its own existence. Further, how could the accidents be such a condition, since they themselves do not persist for two moments? For, as the instant is at the same time the end of their privation and the beginning of their period of existence, the substance must be destroyed in this instant, for in this instant there is neither anything
of the privative period nor anything of the existent. If there were in the instant anything of the privative period or of the existent, it could not be the end of the former and the beginning of the latter.’ And on the whole, that something which does not persist two moments should be made a condition for the persistence of something for two moments is absurd. Indeed, a thing that persists for two moments is more capable of persisting than one which does not persist for two moments, for the existence of what does not persist for two moments is at an instant, which is in flux, but the existence of what persists for two moments is constant, and how can what is in flux be a condition for the existence of the constant, or how can what is only specifically persistent be a condition for the persistence of the individually persistent? This is all senseless talk. One should know that he who does not admit a Kyle for the corruptible must regard the existent as simple and as not liable to corruption, for the simple does not alter and does not exchange its substance for another substance. Therefore Hippocrates says ‘if man were made out of one thing alone, he could not suffer by himself’, i.e. he could not suffer corruption or change. And therefore he could not have become either, but would have to be an eternal existent. What he says here about Avicenna of the difference between the production and the destruction of the soul is without sense.

Ghazali says, answering the philosophers:

The answer is: So far as concerns the different sects you have mentioned, although we could defend each of them and could show that your refutation on the basis of your principle is not valid, because your own principles are liable to the same kind of objection, we will not insist on this point, but we will restrict ourselves to one sect and ask: How will you refute the man who claims that creation and annihilation take place through the will of God: if God wills, He creates, and if He wills, He annihilates, and this is the meaning of His being absolutely powerful, and notwithstanding this He does not alter in Himself, but it is only His act that alters? And concerning your objection that, inasmuch as an act must proceed from the agent, it cannot be understood which act can proceed from Him, when He annihilates, we answer: What proceeds from Him is a new fact, and the new fact is non-existence, for there was no non-existence; then it happened as something new, and this is what proceeds from Him. And if you say: Non-existence is nothing, how could it then proceed from Him? we reply: If non-existence is nothing, how could it happen? Indeed, ‘proceeding from Him’ does not mean anything but that its happening is related to His power. If its happening has an intelligible meaning, why should its relation to His power not be reasonable?

I say:

All this is sophistical and wrong. The philosophers do not deny that a thing becomes non-existent when a destroying agent destroys it; they only say that the destroying act does not attach itself to it, in so far as the thing becomes non-existent, but in so far as it changes from actual being to potential being, and non-existence results from this change, and it is in this way that non-existence is related to the agent. But it does not follow from the fact that its non-existence occurs after the act of the agent that the agent performs it primarily and essentially. For when it was conceded to Ghazali during the discussion of this problem that the non-existence of the corrupting thing will necessarily occur after the act of the corrupting agent, he drew the conclusion that its non-existence would follow essentially and primarily from the act, but this is impossible. For the agent’s act does not attach itself to its non-existence in so far as it is non-existent, i.e. primarily and essentially. And therefore, if the perceptible existences were simple, they could neither be generated nor destroyed except through the act of the agent being attached to their nonexistence essentially and primarily. But the act of the agent is only attached to non-existence accidentally and secondarily through its changing the object from actual existence into another form of existence in an act followed by non-existence, as from the change of a fire into air there follows the non-existence of the fire. This is the philosophical theory of existence and non-existence.

Ghazali says:

And what is the difference between you and the man who denies absolutely that non-existence can occur to accidents and forms, and who says that non-existence is nothing at all and asks how then it could occur and be called an occurrence and a new event? But no doubt non-existence can be represented as occurring to the accidents, and to speak of it as occurring has a sense whether you call it something real or not.
And the relation of this occurrence, which has a reasonable sense, to the power of the Omnipotent, also has an intelligible meaning.’

I say:

That non-existence of this kind occurs is true, and the philosophers admit it, because it proceeds from the agent according to a second intention and accidentally; but it does not follow from its proceeding or from its having a reasonable meaning that it happens essentially or primarily, and the difference between the philosophers and those who deny the occurrence of non-existence is that the philosophers do not absolutely deny the occurrence of non-existence, but only its occurring primarily and essentially through the agent. For the act of the agent does not attach itself necessarily, primarily, and essentially to non-existence, and according to the philosophers non-existence happens only subsequently to the agent’s act in reality. The difficulties ensue only for those who affirm that the world can be annihilated in an absolute annihilation.

Ghazali says:

Perhaps the philosophers will answer: This difficulty is only acute for those who allow the non-existence of a thing after its existence, for those may be asked what the reality is that occurs. But according to us philosophers the existing thing does not become non-existent, for we understand by the fact that the accidents become non-existent the occurrence of their opposites, which are existing realities, and not the occurrence of mere non-existence which is nothing at all, and how could what is nothing at all be said to occur? For if hair becomes white, it is simply whiteness that occurs, for whiteness is something real; but one cannot say that what occurs is the privation of blackness.’

I say:

This answer on behalf of the philosophers is mistaken, for the philosophers do not deny that non-existence occurs and happens through the agent, not, however, according to a primary intention as would be the consequence for one who assumes that a thing can change into pure nothingness; no, non-existence, according to them, occurs when the form of the thing that becomes non-existent disappears, and the opposite form appears. Therefore the following objection which Ghazali makes is valid.

Ghazali says:

This is wrong for two reasons. The first is: Does the occurrence of whiteness imply the absence of blackness? If they deny it, this is an affront to reason, and if they admit it, it may be asked: Is what is implied identical with that which implies? To admit this is a contradiction, for a thing does not imply itself, and if they deny it, it may be asked: Has that which is implied an intelligible meaning? If they deny it, we ask, ’How do you know, then, that it is implied, for the judgement that it is implied presupposes that it has a sensible meaning?’ If they admit this, we ask; ’Is this thing which is implied and has a sensible meaning, i.e. the absence of blackness, eternal or temporal?’ The answer ’eternal’ is impossible; if they answer ’temporal’, how should what is described as occurring temporally not be clearly understood? And if they answer ’neither eternal nor temporal, this is absurd, for if it were said before the occurrence of whiteness that blackness was non-existent, it would be false, whereas afterwards it would be true.’ It occurred, therefore, without any doubt, and this occurrence is perfectly intelligible and must be related to the Omnipotent.

I say:

This is an occurrence which is perfectly intelligible and must be related to the Omnipotent, but only accidentally and not essentially, for the act of the agent does not attach itself to absolute non-existence, nor to the non-existence of anything, for even the Omnipotent cannot bring it about that existence should become identical with non-existence. The man who does not assume matter cannot be freed from this difficulty, and he will have to admit that the act of the agent is attached to non-existence primarily and essentially. All this is clear, and there is no need to say more about it. The philosophers, therefore, say that the essential principles of transitory things are two: matter and form, and that there is a third accidental principle, privation, which is a condition of the occurrence of what becomes, namely as preceding it: if a thing becomes, its privation disappears, and if it suffers corruption, its privation arises.’

http://www.muslimphilosophy.com/ir/tt/tt-all.htm
Ghazali says:

The second objection is that according to the philosophers there are accidents which can become non-existent otherwise than through their contrary, for instance, motion has no contrary, and the opposition between motion and rest is, according to the philosophers, only the opposition of possession and non-possession, i.e. the opposition of being and not-being, not the opposition of one being to another being, and the meaning of rest is the absence of motion, and, when motion ceases, rest does not supervene as its contrary, but is a pure non-existence. The same is the case with those qualities which belong to the class of entelechies, like the impression of the sensible species on the vitreous humour of the eyes and still more the impression of the forms of the intelligibles on the soul; they become existent without the cessation of a contrary, and their non-existence only means the cessation of their existence without the subsequent occurrence of their opposites, and their disappearance is an example of pure non-existence which arises. The occurrence of such a non-existence is an understandable fact, and that which can be understood as occurring by itself, even if it is not a real entity, can be understood as being related to the power of the Omnipotent. Through this it is clear that, when one imagines an event as occurring through the eternal Will, it is unessential, whether the occurring event is a becoming or a vanishing.

I say:

On the contrary, when non-existence is assumed to proceed from the agent as existence proceeds from it, there is the greatest difference between the two. But when existence is assumed as a primary fact and non-existence as a secondary fact, i.e. when non-existence is assumed to take place through the agent by means of a kind of existence, i.e. when the agent transforms actual existence into potential existence by removing the actuality—which is a quality possessed by the substrate—then it is true. And from this point of view the philosophers do not regard it as impossible that the world should become non-existent in the sense of its changing into another form, for non-existence is in this case only a subsequent occurrence and a secondary fact. But what they regard as impossible is that a thing should disappear into absolute nothingness, for then the act of the agent would have attached itself to non-existence, primarily and essentially.

Throughout this discussion Ghazali has mistaken the accidental for the essential, and forced on the philosophers conclusions which they themselves regard as impossible. This is in general the character of the discussion in this book. A more suitable name, therefore, for this book would be ‘The Book of Absolute Incoherence’, or ‘The Incoherence of Ghazali’, not ‘The Incoherence of the Philosophers’, and the best name for my book ‘The Distinction between Truth and Incoherent Arguments’.

---

**THE THIRD DISCUSSION**

**THE DEMONSTRATION OF THEIR CONFUSION IN SAYING THAT GOD IS THE AGENT AND THE MAKER OF THE WORLD AND THAT THE WORLD IS HIS PRODUCT AND ACT, AND THE DEMONSTRATION THAT THESE EXPRESSIONS ARE IN THEIR SYSTEM ONLY METAPHORS WITHOUT ANY REAL SENSE**

Ghazali says:

All philosophers, except the materialists, agree that the world has a maker, and that God is the maker and agent of the world and the world is His act and His work. And this is an imposture where their principle is concerned, nay it cannot be imagined that according to the trend of their principle the world is the work of God, and this for three reasons, from the point of view of the agent, from the point of view of the act, and from the point of view of the relation common to act and agent. As concerns the first
point, the agent must be willing, choosing, and knowing what he wills to be the agent of what he wills, but according to them God does not will, He has no attribute whatever, and what proceeds from Him proceeds by the compulsion of necessity. The second point is that the world is eternal, but ‘act’ implies production. And the third point is that God is unique, according to their principles, from all points of view, and from one thing—according to their principles—there can only proceed one thing. The world, however, is constituted out of diverse components; how could it therefore proceed from Him?

I say:

Ghazali’s words ‘The agent must be willing, choosing, and knowing what he wills to be the agent of what he wills’ are by no means self-evident and cannot be accepted as a definition of the maker of the world without a proof, unless one is justified in inferring from the empirical to the divine. For we observe in the empirical world two kinds of agents, one which performs exclusively one thing and this essentially, for instance warmth which causes heat and coldness which causes cold; and this kind is called by the philosophers natural agents. The second kind of agents are those that perform a certain act at one time and its opposite at another; these, acting only out of knowledge and deliberation, are called by the philosophers voluntary and selective agents. But the First Agent cannot be described as having either of these two actions, in so far as these are ascribed to transitory things by the philosophers. For he who chooses and wills lacks the things which he wills, and God cannot lack anything He wills. And he who chooses makes a choice for himself of the better of two things, but God is in no need of a better condition. Further, when the willer has reached his object, his will ceases and, generally speaking, will is a passive quality and a change, but God is exempt from passivity and change. God is still farther distant from natural action, for the act of the natural thing is a necessity in its substance, but is not a necessity in the substance of the willer, and belongs to its entelechy. In addition, natural action does not proceed from knowledge: it has, however, been proved that God’s act does proceed from knowledge. The way in which God becomes an agent and a willer has not become clear in this place, since there is no counterpart to His will in the empirical world. How is it therefore possible to assert that an agent can only be understood as acting through deliberation and choice? For then this definition is indifferently applied to the empirical and the divine, but the philosophers do not acknowledge this extension of the definition, so that from their refusal to acknowledge this definition as applying to the First Agent, it cannot be inferred that they deny that He acts at all.

This is, of course, self-evident and not the philosophers are impostors, but he who speaks in this way, for an impostor is one who seeks to perplex, and does not look for the truth. He, however, who errs while seeking the truth cannot be called an impostor, and the philosophers, as a matter of fact, are known to seek the truth, and therefore they are by no means impostors. There is no difference between one who says that God wills with a will which does not resemble the human will, and one who says that God knows through a knowledge which does not resemble human knowledge; in the same way as the quality of His knowledge cannot be conceived, so the quality of His will cannot be conceived.

Ghazali says:

We will now test each of these three reasons at the same time as the illusory arguments which the philosophers give in their defence.

The first reason. We say: ‘Agent’ means someone from whom there proceeds an act with the will to act according to choice and with the knowledge of the object willed. But according to the philosophers the world stands in relation to God as the effect to the cause, in a necessary connexion which God cannot be imagined to sever, and which is like the connexion between the shadow and the man, light and the sun, but this is not an act at all. On the contrary, he who says that the lamp makes the light and the man makes the shadow uses the term vaguely, giving it a sense much wider than its definition, and uses it metaphorically, relying on the fact that there is an analogy between the object originally meant by it and the object to which it is transferred, i.e. the agent is in a general sense a cause, the lamp is the cause of the light, and the sun is the cause of luminosity; but the agent is not called a creative agent from the sole fact that it is a cause, but by its being a cause in a special way, namely
that it causes through will and through choice. If, therefore, one said that neither a
wall, nor a stone, nor anything inanimate is an agent, and that only animals have
actions, this could not be denied and his statement would not be called false. But
according to the philosophers a stone has an action, namely falling and heaviness and a
centripetal tendency, just as fire has an action, namely heating, and a wall has an
action, namely a centripetal tendency and the throwing of a shadow, and, according to
them each of these actions proceeds from it as its agent; which is absurd.’

I say:

There are in brief two points here, the first of which is that only those who act from deliberation
and choice are regarded as acting causes, and the action of a natural agent producing something else is
not counted among acting causes, while the second point is that the philosophers regard the
procession of the world from God as the necessary connexion obtaining between shadow and the
person, and luminosity and the sun, and the downward rolling in relation to the stone, but that this
cannot be called an action because the action can be separated from the agent.

I say:

All this is false. For the philosophers believe that there are four causes: agent, matter, form, and end.
The agent is what causes some other thing to pass from potency to actuality and from nonexistence to
existence; this actualization occurs sometimes from deliberation and choice, sometimes by nature, and
the philosophers do not call a person who throws a shadow an agent, except metaphorically, because
the shadow cannot be separated from the man, and by common consent the agent can be separated
from its object, and the philosophers certainly believe that God is separated from the world and
according to them He is not to be classed with this kind of natural cause. Nor is He an agent in the
sense in which any empirical agent, either voluntary or involuntary, is; He is rather the agent of these
causes, drawing forth the Universe from non-existence to existence and conserving it, and such an act
is a more perfect and glorious one than any performed by the empirical agents. None of these
objections therefore touch them, for they believe that God’s act proceeds from Him through
knowledge, not through any necessity which calls for it, either in His essence or outside His essence,
but through His grace and His bounty. He is necessarily endowed with will and choice in their highest
form, since the insufficiency which is proper to the empirical willer does not pertain to Him. And
these are the very words of Aristotle in one of his metaphysical treatises: We were asked how God
could bring forth the world out of nothing, and convert it into something out of nothing, and our
answer is this: the Agent must be such that His capacity must be proportionate to His power and His
power proportionate to His will and His will proportionate to His wisdom, if not, His capacity would
be weaker than His power, His power weaker than His will, and His will weaker than His wisdom.
And if some of His powers were weaker than others, there would be no difference between His
powers and ours, and imperfection would attach to Him as to us—a very blasphemous theory. But in
the opposite case each of these powers is of the utmost perfection. When He wills He has the power,
and when He has the power He has the capacity and all this with the greatest wisdom. And He exists,
making what He wants out of nothing. And this is only astonishing through this imperfection which is
in us. And Aristotle said also: Everything that is in this world is only set together through the power
which is in it from God; if this power did not exist in the things, they could not last the twinkling of
an eye.

I say:

Composite existence is of two classes; in the one class the composition is something additional to
the existence of the composed, but in the other the composition is like the existence of matter and
form and in these existents the existence cannot be regarded as anterior to the composition, but on the
contrary the composition is the cause of their existence and anterior to it. If God therefore is the cause
of the composition of the parts of the world, the existence of which is in their composition, then He is
the cause of their existence and necessarily He who is the cause of the existence of anything whatever
is its agent. This is the way in which according to the philosophers this question must be understood,
if their system is truly explained to the student.

Ghazali says, speaking on behalf of the philosophers:

The philosophers may say: we call an object anything that has no necessary
existence by itself, but exists through another, and we call its cause the agent, and we
do not mind whether the cause acts by nature or voluntarily, just as you do not mind
whether it acts by means of an instrument or without an instrument, and just as ‘act’ is a genus subdivided into ‘acts which occur by means of an instrument’ and ‘acts which occur without an instrument’, so it is a genus subdivided into ‘acts which occur by nature’ and ‘acts which occur voluntarily’. The proof is that, when we speak of an act which occurs by nature, our words ‘by nature’ are not contradictory to the term ‘act’; the words ‘by nature’ are not used to exclude or contradict the idea of act, but are meant only to explain the specific character of the act, just as, when we speak of an act effected directly without an instrument, there is no contradiction, but only a specification and an explanation. And when we speak of a ‘voluntary act’, there is not a redundancy as in the expression a ‘living being-man’; it is only an explanation of its specific character, like the expression, ‘act performed by means of an instrument’. If, however, the word ‘act’ included the idea of will, and will were essential to act, in so far as it is an act, our expression ‘natural act’ would be a contradiction.

I say:

The answer, in short, has two parts. The first is that everything that is necessary through another thing is an object of what is necessary by itself, but this can be opposed, since that through which the ‘necessary through another’ has its necessary existence need not be an agent, unless by ‘through which it has its necessary existence’ is meant that which is really an agent, i.e. that which brings potency into act. The second part is that the term ‘agent’ seems like a genus for that which acts by choice and deliberation and for that which acts by nature; this is true, and is proved by our definition of the term ‘agent’. Only this argument wrongly creates the impression that the philosophers do not regard the first agent as endowed with will. And this dichotomy that everything is either of necessary existence by itself or existent through another is not self-evident.

Ghazali, refuting the philosophers, says:

This designation is wrong, for we do not call any cause whatsoever an agent, nor any effect an object; for, if this were so, it would be not right to say that the inanimate has no act and that only the living exhibit acts—a statement generally admitted.

I say:

His assertion that not every cause is called an agent is true, but his argument that the inanimate is not called an agent is false, for the denial that the inanimate exhibits acts excludes only the rational and voluntary act, not act absolutely, for we find that certain inanimate things have powers to actualize things like themselves; e.g. fire, which changes anything warm and dry into another fire like itself, through converting it from what it has in potency into actuality. Therefore fire cannot make a fire like itself in anything that has not the potency or that is not in readiness to receive the actuality of fire. The theologians, however, deny that fire is an agent, and the discussion of this problem will follow later. Further, nobody doubts that there are in the bodies of animals powers which make the food a part of the animal feeding itself and generally direct the body of the animal. If we suppose them withdrawn, the animal would die, as Galen says. And through this direction we call it alive, whereas in the absence of these powers we call it dead.

Ghazali goes on:

If the inanimate is called an agent, it is by metaphor, in the same way as it is spoken of metaphorically as tending and willing, since it is said that the stone falls down, because it tends and has an inclination to the centre, but in reality tendency and will can only be imagined in connexion with knowledge and an object desired and these can only be imagined in animals.

I say:

If by ‘agent’ or ‘tendency’ or ‘willing’ is meant the performance of an act of a willer, it is a metaphor, but when by these expressions is meant that it actualizes another’s potency, it is really an agent in the full meaning of the word.

Ghazali then says:

When the philosophers say that the term ‘act’ is a genus which is subdivided into ‘natural act’ and ‘voluntary act’, this cannot he conceded; it is as if one were to say that ‘willing’ is a genus which is subdivided into willing accompanied by knowledge of the object willed, and willing without knowledge of the object willed. This is wrong, because will necessarily implies knowledge, and likewise act necessarily
implies will.

I say:
The assertion of the philosophers that ‘agent’ is subdivided into ‘voluntary’ and ‘non-voluntary agent’ is true, but the comparison with a division of will into rational and irrational is false, because in the definition of will knowledge is included, so that the division has no sense. But in the definition of ‘act’ knowledge is not included, because actualization of another thing is possible without knowing it. This is clear, and therefore the wise say that God’s word: ‘a wall which wanted to fall to pieces’ is a metaphor.

Ghazali proceeds:
When you affirm that your expression ‘natural act’ is not a contradiction in terms you are wrong; there is as a matter of fact a contradiction when ‘natural act’ is taken in a real sense, only this contradiction is not at once evident to the understanding nor is the incompatibility of nature and act felt acutely, because this expression is employed metaphorically; for since nature is in a certain way a cause and the agent is also a cause, nature is called an agent metaphorically. The expression ‘voluntary act’ is as much redundant as the expression ‘he wills and knows what he wills’.

I say:
This statement is undoubtedly wrong, for what actualizes another thing, i.e. acts on it, is not called agent simply by a metaphor, but in reality, for the definition of ‘agent’ is appropriate to it. The division of ‘agent’ into ‘natural’ and ‘voluntary agent’ is not the division of an equivocal term, but the division of a genus. Therefore the division of ‘agent’ into ‘natural’ and ‘voluntary agent’ is right, since that which actualizes another can also be divided into these two classes.

Ghazali says:
However, as it can happen that ‘act’ is used metaphorically and also in its real sense, people have no objection in saying ‘someone acted voluntarily’, meaning that he acted not in a metaphorical sense, but really, in the way in which it is said ‘he spoke with his tongue’, or ‘he saw with his eye’. For, since one is permitted to rise ‘heart’ metaphorically for ‘sight’, and motion of the head or hand for word—for one can say ‘He nodded assent’—it is not wrong to say ‘He spoke with his tongue and he saw with his eye’, in order to exclude any idea of metaphor. This is a delicate point, but let us be careful to heed the place where those stupid people slipped.

I say:
Certainly it is a delicate point that a man with scientific pretensions should give such a bad example and such a false reason to explain the repugnance people seem to have in admitting the division of ‘act’ into ‘natural’ and ‘voluntary act’. No one ever says ‘He saw with his eye, and he saw without his eye’ in the belief that this is a division of sight; we only say ‘He saw with his eye’ to emphasize the fact that real sight is meant, and to exclude the metaphorical sense of ‘sight’. And the intelligent in fact think that for the man who understands immediately that the real meaning is intended, this connecting of sight with the eye is almost senseless. But when one speaks of ‘natural’ and ‘voluntary act’, no intelligent person disagrees that we have here a division of ‘act’. If, however, the expression ‘voluntary act’ were similar to ‘sight with the eye’ the expression ‘natural act’ would be metaphorical. But as a matter of fact the natural agent has an act much more stable than the voluntary agent, for the natural agent’s act is constant—which is not the case with the act of the voluntary agent. And therefore the opponents of the theologians might reverse the argument against them and say that ‘natural act’ is like ‘sight with the eye’ and ‘voluntary act’ is a metaphor—especially according to the doctrine of the Ash’arites, who do not acknowledge a free will in man and a power to exercise an influence on reality. And if this is the case with the agent in the empirical world, how can we know that it is an accurate description of the real Agent in the divine world to say that He acts through knowledge and will?

Ghazali says, speaking on behalf of the philosophers:
The philosophers may reply: The designation ‘agent’ is known only through language. However, it is clear to the mind that the cause of a thing can be divided into voluntary and non-voluntary cause, and it may be disputed whether or not in both cases the word ‘act’ is used in a proper sense, but it is not possible to deny this since the Arabs say that fire burns, a sword cuts, that snow makes cold, that scammony
purges, that bread stills hunger and water thirst, and our expression ‘he beats’ means he performs the act of beating, and ‘it burns’ it performs the act of burning, and ‘he cuts’ he performs the act of cutting; if you say, therefore, that its use is quite metaphorical, you are judging without any evidence.

I say:
I This, in short, is a common-sense argument. The Arabs indeed call that which exerts an influence on a thing, even if not voluntary, an agent, in a proper, not in a metaphorical, sense. This argument, however, is dialectical and of no importance.

Ghazali replies to this:

The answer is that all this is said in a metaphorical way and that only a voluntary act is a proper act. The proof is that, if we assume an event which is based on two facts, the one voluntary, the other involuntary, the mind relates the act to the voluntary fact. Language expresses itself in the same way, for if a man were to throw another into a fire and kill him, it is the man who would be called his killer, not the fire. If, however, the term were used in the same sense of the voluntary and the non-voluntary, and it were not that the one was a proper sense, the other a metaphorical, why should the killing be related to the voluntary, by language, usage, and reason, although the fire was the proximate cause of the killing and the man who threw the other into the fire did nothing but bring man and fire together? Since, however, the bringing together is a voluntary act and the influence of the fire non-voluntary, the man is called a killer and the fire only metaphorically so. This proves that the word ‘agent’ is used of one whose act proceeds from his will, and, behold, the philosophers do not regard God as endowed with will and choice.

I say:

This is an answer of the wicked who heap fallacy on fallacy. Ghazali is above this, but perhaps the people of his time obliged him to write this book to safeguard himself against the suspicion of sharing the philosophers’ view. Certainly nobody attributes the act to its instrument, but only to its first mover. He who killed a man by fire is in the proper sense the agent and the fire is the instrument of the killing, but when a man is burned by a fire, without this fact’s depending on someone’s choice, nobody would say that the fire burned him metaphorically. The fallacy he employs here is the well-known one a dicto secundum quid ad dictum simpliciter, e.g. to say of a negro, because his teeth are white, that he is white absolutely. The philosophers do not deny absolutely that God wills, for He is an agent through knowledge and from knowledge, and He performs the better of two contrary acts, although both are possible; they only affirm that He does not will in the way that man wills.

Ghazali says, answering in defence of the philosophers:

If the philosophers say: We do not mean anything by God’s being an agent but that He is the cause of every existent besides Himself and that the world has its subsistence through Him, and if the Creator did not exist, the existence of the world could not be imagined. And if the Creator should be supposed non-existent, the world would be non-existent too, just as the supposition that the sun was non-existent would imply the non-existence of light. This is what we mean by His being an agent. If our opponents refuse to give this meaning to the word ‘act’, well, we shall not quibble about words.

I say:

Such an answer would mean that the philosophers would concede to their opponents that God is not an agent, but one of those causes without which a thing cannot reach its perfection; and the answer is wrong, for against them it might be deduced from it that the First Cause is a principle, as if it were the form of the Universe, in the way the soul is a principle for the body; no philosopher, however, affirms this.

Then Ghazali says, answering the philosophers:

We say: Our aim is to show that such is not the meaning of ‘act’ and ‘work’. These words can mean only that which really proceeds from the will. But you reject the real meaning of ‘act’, although you use this word, which is honoured amongst Muslims. But one’s religion is not perfect when one uses words deprived of their sense. Declare therefore openly that God has no act, so that it becomes clear that your belief is in opposition to the religion of Islam, and do not deceive by saying that God is the maker
of the world and that the world is His work, for you use the words, but reject their real sense!

I say:

This would indeed be a correct conclusion against the philosophers, if they should really say what Ghazali makes them say. For in this case they could indeed be forced to admit that the world has neither a natural nor a voluntary agent, nor that there is another type of agents besides these two. He does not unmask their imposture by his words, but lie himself deceives by ascribing to them theories which they do not hold.

Ghazali says:

The second reason for denying that the world is according to the principle of the philosophers an act of God is based on the implication of the notion of an act. ‘Act’ applies to temporal production, but for them the world is eternal and is not produced in time. The meaning of ‘act’ is ‘to convert from not-being into being by producing it’ and this cannot be imagined in the eternal, as what exists already cannot be brought into existence. Therefore ‘act’ implies a temporal product, but according to them the world is eternal; how then could it be God’s act?

I say:

If the world were by itself eternal and existent (not in so far as it is moved, for each movement is composed of parts which are produced), then, indeed, the world would not have an agent at all. But if the meaning of ‘eternal’ is that it is in everlasting production and that this production has neither beginning nor end, certainly the term ‘production’ is more truly applied to him who brings about an everlasting production than to him who procures a limited production. In this way the world is God’s product and the name ‘production’ is even more suitable for it than the word ‘eternity’, and the philosophers only call the world eternal to safeguard themselves against the word ‘product’ in the sense of ‘a thing produced after a state of nonexistence, from something, and in time’.

Then Ghazali says, on behalf of the philosophers:

The philosophers may perhaps say: The meaning of ‘product’ is ‘that which exists after its non-existence’. Let us therefore examine if what proceeds from the agent when He produces, and what is connected with Him, is either pure existence, or pure non-existence, or both together. Now, it is impossible to say that previous non-existence was connected with Him, since the agent cannot exert influence upon non-existence, and it is equally impossible to say ‘both together’, for it is clear that non-existence is in no way connected with the agent, for non-existence qua non-existence needs no agent at all. It follows therefore that what is connected with Him is connected with Him in so far as it is an existent, that what proceeds from Him is pure existence, and that there is no other relation to Him than that of existence. If existence is regarded as everlasting, then this relation is everlasting, and if this relation is everlasting, then the term to which this relation refers is the most illustrious and the most enduring in influence, because at no moment is non-existence connected with it. Temporal production implies therefore the contradictory statements that it must be connected with an agent, that it cannot be produced, if it is not preceded by non-existence, and that non-existence cannot be connected with the agent.

And if previous non-existence is made a condition of the existent, and it is said that what is connected with the agent is a special existence, not any existence, namely an existence preceded by non-existence, it may be answered that its being preceded by non-existence cannot be an act of an agent or a deed of a maker, for the procession of this existence from its agent cannot be imagined, unless preceded by non-existence; neither, therefore, can the precedence of this non-existence be an act of the agent and connected with him, nor the fact that this existence is preceded by non-existence. Therefore to make non-existence a condition for the act’s becoming an act is to impose as a condition one whereby the agent cannot exert any influence under any condition.’

I say:

This is an argument put forward on this question by Avicenna from the philosophical side. It is sophistical, because Avicenna leaves out one of the factors which a complete division would have to state.
For he says that the act of the agent must be connected either with an existence or with a non-existence, previous to it and in so far as it is non-existence, or with both together, and that it is impossible that it should be connected with non-existence, for the agent does not bring about non-existence and, therefore, neither can it effect both together. Therefore the agent can be only connected with existence, and production is nothing but the connexion of act with existence, i.e. the act of the agent is only bringing into existence, and it is immaterial whether this existence be preceded by non-existence or not. But this argument is faulty, because the act of the agent is only connected with existence in a state of non-existence, i.e. existence in potentiality, and is not connected with actual existence, in so far as it is actual, nor with non-existence, in so far as it is non-existent. It is only connected with imperfect existence in which non-existence inheres. The act of the agent is not connected with non-existence, because non-existence is not actual; nor is it connected with existence which is not linked together with non-existence, for whatever has reached its extreme perfection of existence needs neither causation nor cause. But existence which is linked up with non-existence only exists as long as the producer exists. The only way to escape this difficulty is to assume that the existence of the world has always been and will always be linked together with non-existence, as is the case with movement, which is always in need of a mover. And the acknowledged philosophers believe that such is the case with the celestial world in its relation to the Creator, and a fortiori with the sublunar world. Here lies the difference between the created and the artificial, for the artificial product, once produced, is not tied up with non-existence which would be in need of an agent for the continued sustenance of the product.

Ghazali continues:

And your statement, theologians, that what exists cannot be made to exist, if you mean by it, that its existence does not begin after its nonexistence, is true; but if you mean that it cannot become an effect at the time when it exists, we have shown that it can only become an effect at the time when it exists, not at the time when it does not exist. For a thing only exists when its agent causes it to exist, and the agent only causes it to exist at the time when, proceeding from it, it exists, not when the thing does not exist; and the causation is joined with the existence of the agent and the object, for causation is the relation between cause and effect. Cause, effect, and causation are simultaneous with existence and there is no priority here, and therefore there is causation only for what exists, if by ‘causation’ is meant the relation through which the agent and its object exist. The philosophers say: It is for this reason that we have come to the conclusion that the world, which is the work of God, is without beginning and everlasting, and that never at any moment was God not its agent, for existence is what is joined with the agent and as long as this union lasts existence lasts, and, if this union is ever discontinued, existence ceases. It is by no means what you theologians mean, that if the Creator were supposed to exist no longer, the world could still persist; you, indeed, believe that the same relation prevails as between the builder and the building, for the building persists when the builder has disappeared. But the persistence of the building does not depend on the builder, but on the strength of the structure in its coherence, for if it had not the power of coherence—if it were like water, for example—it would not be supposed to keep the shape which it received through the act of the agent.

I say:

Possibly the world is in such a condition, but in general this argument is not sound. For it is only true that the causing agent is always connected with the effect, in so far as the effect actually exists without this actuality’s having any insufficiency and any potency, if one imagines that the essence of the effect lies in its being an effect, for then the effect can only be an effect through the causation of the agent. But if its becoming an effect through a cause is only an addition to its essence, then it is not necessary that its existence should cease when the relation between the causing agent and the effect is interrupted. If, however, it is not an addition, but its essence consists in this relation of being an effect, then what Avicenna says is true. However, it is not true of the world, for the world does not exit on account of this relation, but it exists on account of its substance and the relation is only accidental to it. Perhaps what Avicenna says is true concerning the forms of the celestial bodies, in so
far as they perceive the separate immaterial forms; and the philosophers affirm this, because it is proved that there are immaterial forms whose existence consists in their thinking, whereas knowledge in this sublunary world only differs from its object because its object inheres in matter.'

Ghazali, answering the philosophers, says:

Our answer is that the act is connected with the agent only in so far as it comes into being, but not in so far as it is preceded by non-existence nor in so far as it is merely existent. According to us the act is not connected with the agent for a second moment after its coming to be, for then it exists; it is only connected with it at the time of its coming to be in so far as it comes to be and changes from non-existence into existence. If it is denied the name of becoming, it cannot be thought to be an act nor to be connected with the agent. Your statement, philosophers, that a thing’s coming to be means its being preceded by non-existence, and that its being preceded by non-existence does not belong to the act of the agent and the deed of the producer, is true; but this prior non-existence is a necessary condition for the existent’s being an act of the agent. For existence not preceded by non-existence is everlasting, and cannot be truly said to be an act of the agent. Not all conditions necessary to make an act an act need proceed from the agent’s act; the essence, power, will, and knowledge of the agent are a condition of his being an agent, but do not derive from him. An act can only be imagined as proceeding from an existent, and the existence, will, power, and knowledge of the agent are a condition of his being an agent, although they do not derive from him.'

I say:

All this is true. The act of the agent is only connected with the effect, in so far as it is moved, and the movement from potential to actual being is what is called becoming. And, as Ghazali says, nonexistence is one of the conditions for the existence of a movement through a mover. Avicenna’s argument that when it is a condition for the act of the agent to be connected with the existence, the absence of this connexion implies that the agent is connected with its opposite, i.e. non-existence, is not true. But the philosophers affirm that there are existents whose essential specific differences consist in motion, e.g. the winds and so on; and the heavens and the sublunary bodies belong to the genus of existents whose existence lies in their movement, and if this is true, they are eternally in a continual becoming. And therefore, just as the eternal existent is more truly existent than the temporal, similarly that which is eternally in becoming is more truly coming to be than that which comes to be only during a definite time. And if the substance of the world were not in this condition of continual movement, the world would not, after its existence, need the Creator, just as a house after being completed and finished does not need the builder’s existence, unless that were true which Avicenna tried to prove in the preceding argument, that the existence of the world consists only in its relation to the agent; and we have already said that we agree with him so far as this concerns the forms of the heavenly bodies.

Therefore the world is during the time of its existence in need of the presence of its agent for both reasons together, namely, because the substance of the world is continually in motion and because its form, through which it has its subsistence and existence, is of the nature of a relation, not of the nature of a quality, i.e. the shapes and states which have been enumerated in the chapter on quality. A form which belongs to the class of quality, and is included in it, is, when it exists and its existence is finished, in no need of an agent. All this will solve the problem for you, and will remove from you the perplexity which befalls man through these contradictory statements.'

Ghazali says, on behalf of the philosophers:

The philosophers might say: If you acknowledge that it is possible that the act should be simultaneous with the agent and not posterior to it, it follows that if the agent is temporal the act must be temporal, and if the agent is eternal the act must be eternal. But to impose as a condition that the act must be posterior in time to the agent is impossible, for when a man moves his finger in a bowl of water, the water moves at the same time as the finger, neither before nor after, for if the water moved later than the finger, finger and water would have to be in one and the same space before the water disconnected itself, and if the water moved before the finger, the water would be separated from the finger and notwithstanding its anteriority would be an effect of the
finger performed for its sake. But if we suppose the finger eternally moving in the
water, the movement of the water will be eternal too, and will be, notwithstanding its
eternal character, an effect and an object, and the supposition of eternity does not make
this impossible. And such is the relation between the world and God.

I say:

This is true in so far as it concerns the relation of movement and mover, but in regard to the stable
existent or to that which exists without moving or resting by nature (if there exist such things ) and
their relation to their cause, it is not true. Let us therefore admit this relation between the agent and
the world only in so far as the world is in motion. As for the fact that the act of every existent must be
conjoined with its existence, this is true, unless something occurs to this existent which lies outside its
nature, or one or another accident occurs to it, and it is immaterial whether this act be natural or
voluntary. See, therefore, what the Ash’arites did who assumed an eternal existent, but denied that He
acted during His eternal existence, but then, however, allowed this agent to act eternally in the future,
so that the eternal existence of the Eternal would become divided into two parts, an eternal past
during which He does not act and an eternal future during which He acts! But for the philosophers all
this is confusion and error.

Ghazali answers the philosophers on the question of priority:

We do not say that the simultaneity of agent and act is impossible, granted that the
act is temporal, e.g. the motion of the water, for this happens after its non-being and
therefore it can be an act, and it is immaterial whether this act be posterior to the agent
or simultaneous with him. It is only an eternal act that we consider impossible, for to
call an act that which does not come into being out of non-being is pure metaphor and
does not conform to reality. As to the simultaneity of cause and effect, cause and effect
can be either both temporal or both eternal, in the way in which it may be said that the
eternal knowledge is the cause of the fact that the Eternal is knowing; we are not
discussing this, but only what is called an act. For the effect of a cause is not called the
act of a cause, except metaphorically. It can only be called an act on condition that it
comes into being out of non-being. And if a man thinks he may describe the
everlasting Eternal metaphorically as acting on something, what he thinks possible is
only the use of a metaphor. And your argument, philosophers—that if we suppose the
movement of the water to be eternal and everlasting with the movement of the finger,
this does not prevent the movement of the water from being an act—rests on a
confusion, for the finger has no act, the agent is simply the man to whom the finger
belongs, that is the man who wills the movement; and, if we suppose him to be eternal,
then the movement of the finger is his act, because every part of this movement comes
out of not-beings and in this sense it is an act. So far as the motion of the water is
concerned, we do not say that it occurs through the act of this man—it is simply an act
of God. In any case, it is only an act in so far as it has come to be, and if its coming to
be is everlasting, it is still an act, because it has come to be.

Then Ghazali gives the philosophers’ answer:

The philosophers may say: ‘If you acknowledge that the relation of the act to the
agent, in so far as this act is an existent, is like the relation of effect and cause and you
admit that the causal relation may be everlasting, we affirm that we do not understand
anything else by the expression “that the world is an act” than that it is an effect having
an everlasting relation to God. Speak of this as an “act” or not just as you please, for
do not let us quibble about words when their sense has once been established.’

Ghazali says:

Our answer is that our aim in this question is to show that you philosophers use
those venerable names without justification, and that God according to you is not a
true agent, nor the world truly His act, and that you apply this word metaphorically—not
in its real sense. This has now been shown.

I say:

In this argument he supposes that the philosophers concede to him that they only mean by God’s
agency that He is the cause of the world, and nothing else, and that cause and effect are simultaneous.
But this would mean that the philosophers had abandoned their original statement, for the effect
follows only from its cause, in so far as it is a formal or final cause, but does not necessarily follow
from its efficient cause, for the efficient cause frequently exists without the effect’s existing. Ghazali
acts here like a guardian who tries to extract from his ward the confession of having done things he
did not allow him to do. The philosophers’ theory, indeed, is that the world has an agent acting from
eternity and everlasting, i.e. converting the world eternally from non-being into being. This question
was formerly a point of discussion between Aristotelians and Platonists. Since Plato believed in a
beginning of the world, there could not in his system be any hesitation in assuming a creative agent
for the world. But since Aristotle supposed the world to be eternal, the Platonists raised difficulties
against him, like the one which occupies us here, and they said that Aristotle did not seem to admit a
creator of the world. If was therefore necessary for the Aristotelians to defend him with arguments
which establish that Aristotle did indeed believe that the world has a creator and an agent. This will
be fully explained in its proper place.

The principal idea is that according to the Aristotelians the celestial bodies subsist through their
movement, and that He who bestows this movement is in reality the agent of this movement and,
since the existence of the celestial bodies only attains its perfection through their being in motion, the
giver of this motion is in fact the agent of the celestial bodies. Further, they prove that God is the
giver of the unity through which the world is united, and the giver of the unity which is the condition
of the existence of the composite; that is to say, He provides the existence of the parts through which
the composition occurs, because this action of combining is their cause (as is proved), and such is the
relation of the First Principle to the whole world. And the statement that the act has come to be, is
true, for it is movement, and the expression ‘eternity’ applied to it means only that it has neither a first
nor a last term. Thus the philosophers do not mean by the expression ‘eternal’ that the world is eternal
through eternal constituents, for the world consists of movement. And since the Ash’arites did not
understand this, it was difficult for them to attribute eternity at the same time to God and to the world.
Therefore the term ‘eternal becoming’ is more appropriate to the world than the term ‘eternity’.

Ghazali says:

The third reason why it is impossible for the philosophers to admit according to
their principle that the world is the act of God is because of a condition which is
common to the agent and the act, namely, their assertion that out of the one only one
can proceed. Now the First Principle is one in every way, and the world is composed
out of different constituents. Therefore according to their principle it cannot be
imagined that the world is the act of God.

I say:
If one accepts this principle, and its consequences, then indeed the answer is difficult. But this
principle has only been put forward by the later philosophers of Islam.'

Then Ghazali says, on behalf of the philosophers:

The philosophers may say perhaps: The world in its totality does not proceed from
God without a mediator; what proceeds from Him is one single existent, and this is the
first of the created principles, namely, abstract intellect, that is a substance subsisting
by itself, not possessing any volume, knowing itself and knowing its principle, which
in the language of the Divine Law is called ‘angel’. From it there proceeds a third
principle, and from the third a fourth, and through this mediation the existent beings
come to be many. The differentiation and multiplicity of the act can proceed either
from a differentiation in active powers, in the way that we act differently through the
power of passion and through the power of anger; or through a differentiation of
matters, as the sun whitens a garment which has been washed, blackens the face of
man, melts certain substances and hardens others; or through a differentiation of
instruments, as one and the same carpenter saws with a saw, cuts with an axe, bores
with an awl;’ or this multiplication of the act can proceed through mediation, so that
the agent does one act, then this act performs another act, and in this way the act
multiplies. All these divisions are impossible in the First Principle, because there is no
differentiation nor duality, nor multiplicity in His essence, as will be proved in the
proofs of His unity. And there is here neither a differentiation of matters-and the very
discussion refers to the first effect, which is, for example, primary matter, nor a
differentiation of the instrument, for there is no existent on the same level as God-and
the very discussion refers to the coming into existence of the first instrument. The only conclusion possible is that the multiplicity which is in the world proceeds from God through mediation, as has been stated previously.

I say:
This amounts to saying that from the One, if He is simple, there can proceed only one. And the act of the agent can only be differentiated and multiplied either through matters (but there are no matters where He is concerned), or through an instrument (but there is no instrument with Him). The only conclusion therefore is that this happens through mediation, so that first the unit proceeds from Him, and from this unit another, and from this again another, and that it is in this way that plurality comes into existence.

Then Ghazali denies this, and says:
We answer: The consequence of this would be that there is nothing in the world composed of units, but that everything that exists is simple and one, and each unit is the effect of a superior unit and the cause of an inferior, till the series ends in an effect which has no further effect, just as the ascending series ends in a cause which has no other cause. But in reality it is not like this, for, according to the philosophers, body is composed of form and Kyle, and through this conjunction there arises one single thing; and man is composed out of body and soul and body does not arise out of soul, nor soul out of body: they exist together through another cause. The sphere, too, is, according to them, like this, for it is a body possessing a soul and the soul does not come to be through the body, nor the body through the soul; no, both proceed from another cause. How do these compounds, then, come into existence? Through one single cause? But then their principle that out of the one only one arises is false. Or through a compound cause? But then the question can be repeated in the case of this cause, till one necessarily arrives at a point where the compound and the simple meet. For the First Principle is simple and the rest are compound, and this can only be imagined through their contact. But wherever this contact takes place, this principle, that out of the one only one proceeds, is false.

I say:
This consequence, that everything which exists is simple, is a necessary consequence for the philosophers, if they assume that the First Agent is like a simple agent in the empirical world. But this consequence is binding only upon the man who applies this principle universally to everything that exists. But the man who divides existents into abstract existents and material, sensible existents, makes the principles to which the sensible existents ascend different from the principles to which the intelligible existents ascend, for he regards as the principles of the sensible existents matter and form, and he makes some of these existents the agents of others, till the heavenly body is reached, and he makes the intelligible substances ascend to a first principle which is a principle to them, in one way analogous to a formal cause, in another analogous to a final cause, and in a third way analogous to an efficient cause. All this has been proved in the works of the philosophers, and we state this proposition here only in a general way. Therefore these difficulties do not touch them. And this is the theory of Aristotle.

About this statement—that out of the one only one proceeds—all ancient philosophers were agreed, when they investigated the first principle of the world in a dialectical way (they mistook this investigation, however, for a real demonstration), and they all came to the conclusion that the first principle is one and the same for everything, and that from the one only one can proceed. Those two principles having been established, they started to examine where multiplicity comes from. For they had already come to the conclusion that the older theory was untenable. This theory held that the first principles are two, one for the good, one for the bad; for those older philosophers did not think that the principles of the opposites could be one and the same; they believed that the most general opposites which comprehend all opposites are the good and the bad, and held therefore that the first principles must be two. When, however, after a close examination, it was discovered that all things tend to one end, and this end is the order which exists in the world, as it exists in an army through its leader, and as it exists in cities through their government, they came to the conclusion that the world must have one highest principle; and this is the sense of the Holy Words ‘If there were in heaven and earth gods beside God, both would surely have been corrupted’. They believed therefore, because of
the good which is present in everything, that evil occurs only in an accidental way, like the punishments which good governors of cities ordain; for they are evils instituted for the sake of the good, not by primary intention. For there exist amongst good things some that can only exist with an admixture of evil, for instance, in the being of man who is composed of a rational and an animal soul. Divine Wisdom has ordained, according to these philosophers, that a great quantity of the good should exist, although it had to be mixed with a small quantity of evil, for the existence of much good with a little evil is preferable to the non-existence of much good because of a little evidence.

Since therefore these later philosophers were convinced that the first principle must of necessity be one and unique, and this difficulty about the one occurred, they gave three answers to this question. Some, like Anaxagoras and his school, believe that plurality is only introduced through matter,' some believe that plurality is introduced through the instruments, and some believe that plurality comes only through the mediators; and the first who assumed this was Plato. This is the most convincing answer, for in the case of both the other solutions one would have to ask again; from where does the plurality come in the matters and in the instruments? But this difficulty touches anyone who acknowledges that from the one only one can proceed: he has to explain how plurality can derive from the one. Nowadays, however, the contrary of this theory, namely, that out of the one all things proceed by one first emanation, is generally accepted, and with our contemporaries we need discuss only this latter statement.

The objection which Ghazali raises against the Peripatetics, that, if plurality were introduced through mediators, there could only arise a plurality of qualitatively undifferentiated agglomerates which could only form a quantitative plurality, does not touch them. For the Peripatetics hold that there exists a twofold plurality, the plurality of simple beings, those beings namely that do not exist in matter, and that some of these are the causes of others and that they all ascend to one unique cause which is of their own genus, and is the first being of their genus, and that the plurality of the heavenly bodies only arises from the plurality of these principles; and that the plurality of the sublunary world comes only from matter and form and the heavenly bodies. So the Peripatetics are not touched by this difficulty. The heavenly bodies are moved primarily through their movers, which are absolutely immaterial, and the forms of these heavenly bodies are acquired from these movers and the forms in the sublunary world are acquired from the heavenly bodies and also from each other, indifferently, whether they are forms of the elements which are in imperishable prime matters or forms of bodies composed out of the elements, and, indeed, the composition in this sublunary world arises out of the heavenly bodies. This is their theory of the order which exists in the world. The reasons which led the philosophers to this theory cannot be explained here, since they built it on many principles and propositions, which are proved in many sciences and through many sciences in a systematic way. But when the philosophers of our religion, like Farabi and Avicenna, had once conceded to their opponents that the agent in the divine world is like the agent in the empirical, and that from the one agent there can arise but one object (and according to all the First was an absolutely simple unity), it became difficult for them to explain how plurality could arise from it. This difficulty compelled them finally to regard the First as different from the mover of the daily circular movement; they declared that from the First, who is a simple existent, the mover of the highest sphere proceeds, and from this mover, since he is of a composite nature, as he is both conscious of himself and conscious of the First, a duality, the highest sphere, and the mover of the second sphere, the sphere under the highest can arise. This, however, is a mistake,' according to philosophical teaching, for thinker and thought are one identical thing in human intellect and this is still more true in the case of the abstract intellects. This does not affect Aristotle’s theory, for the individual agent in the empirical world, from which there can only proceed one single act, can only in an equivocal way be compared to the first agent. For the first agent in the divine world is an absolute agent, while the agent in the empirical world is a relative agent, and from the absolute agent only an absolute act which has no special individual object can proceed. And thereby Aristotle proves that the agent of the human intelligibles is an intellect free from matter, since this agent thinks all things, and in the same way he proves that the passive intellect is ingenerable and incorruptible, because this intellect also thinks all things.

According to the system of Aristotle the answer on this point is that everything whose existence is only effected through a conjunction of parts, like the conjunction of matter and form, or the conjunction of the elements of the world, receives its existence as a consequence of this conjunction. The bestower of this conjunction is, therefore, the bestower of existence. And since everything
conjoined is only conjoined through a unity in it, and this unity through which it is conjoined must depend on a unity, subsistent by itself, and be related to it, there must exist a single unity, subsistent by itself, and this unity must of necessity provide unity through its own essence. This unity is distributed in the different classes of existing things, according to their natures, and from this unity, allotted to the individual things, their existence arises; and all those unities lead upwards to the First Monad, as warmth which exists in all the individual warm things proceeds from primal warmth, which is fire, and leads upwards to it? By means of this theory Aristotle connects sensible existence with intelligible, saying that the world is one and proceeds from one, and that this Monad is partly the cause of unity, partly the cause of plurality. And since Aristotle was the first to find this solution, and because of its difficulty, many of the later philosophers did not understand it, as we have shown. It is evident, therefore, that there is a unique entity from which a single power emanates through which all beings exist. And since they are many, it is necessarily from the Monad, in so far as it is one, that plurality arises or proceeds or whatever term is to be used. This is the sense of Aristotle’s theory, a sense very different from that in which those thinkers believe who affirm that from the one only one can proceed. See therefore how serious this error proved among the philosophers! You should, therefore, see for yourself in the books of the ancients whether these philosophical theories are proved, not in the works of Avicenna and others who changed the philosophical doctrine in its treatment of metaphysics so much that it became mere guessing.

Ghazali says, on behalf of the philosophers:

It may be said: If the philosophical theory is properly understood, the difficulties disappear. Existents can be divided into what exists in a substratum, like accidents and forms, and what does not exist in a substratum. The latter can be divided again into what serves as a substratum for other things, e.g. bodies, and what does not exist in a substratum, e.g. substances which subsist by themselves. These latter again are divided into those which exert an influence on bodies and which we call souls, and those which exert an influence not on bodies but on souls, and which we call abstract intellects. Existents which inhere in a substratum, like accidents, are temporal and have temporal causes which terminate in a principle, in one way temporal, in another way everlasting, namely, circular movement. But we are not discussing this here. Here we are discussing only those principles which exist by themselves and do not inhere in a substratum, which are of three kinds: (i) bodies, which are the lowest type, (ii) abstract intellects, which are not attached to bodies, either by way of action or by being impressed upon them, which are the highest type, and (iii) souls, which are the intermediate agencies, attached to the bodies in a certain way, namely, through their influence and their action upon them, and which stand midway in dignity; they undergo an influence from the intellects and exert an influence upon the bodies.

Now the number of bodies is ten. There are nine heavens, and the tenth body is the matter which fills the concavity of the sphere of the moon. The nine heavens are animated; they possess bodies and souls, and they have an order in existence which we shall mention here. From the existence of the First Principle there emanates the first intellect—an existent which subsists by itself, immaterial, not impressed on body, conscious of its principle and which we philosophers call First Intellect, but which (for we do not quibble about words) may be called angel, or intellect, or what you will. From its existence there derive three things, an intellect, the soul, and the body of the farthest sphere, i.e. the ninth heaven. Then from the second intellect there derive a third intellect and the soul and the body of the sphere of the fixed stars, then from the third intellect there derive a fourth intellect and the soul and the body of the sphere of Saturn, then from the fourth intellect there derive a fifth intellect and the soul and the body of the sphere of Jupiter, and so on till one arrives at the intellect from which there derive the intellect, the soul and the body of the sphere of the moon, and this last intellect is that which is called the active intellect. Then there follows that which fills the sphere of the moon, namely, the matter which receives generation and corruption from the active intellect and from the natures of the spheres. Then through the action of the movements of the spheres and the stars the matters are mixed in different mixtures from which the minerals, vegetables, and animals arise. It is not necessary
that from each intellect another intellect should derive endlessly, for these intellects are of a different kind, and what is valid for the one is not valid for the other. It follows from this that the intellects after the First Principle are ten in number and that there are nine spheres, and the sum of these noble principles after the First Principle is therefore nineteen; and that under each of the primary intellects there are three things, another intellect and a soul and body of a sphere. Therefore there must be in each intellect a triple character, and in the first effect a plurality can only be imagined in this way: (i) it is conscious of its principle, (ii) it is conscious of itself, (iii) it is in itself possible, since the necessity of its existence derives from another. These are three conditions, and the most noble of these three effects must be related to the most noble of these conditions. Therefore the intellect proceeds from the first effect; in so far as the first effect is conscious of its principle; the soul of the sphere proceeds from the first effect, in so far as the first effect is conscious of itself; and the body of the sphere proceeds from the first effect, in so far as by itself the first effect belongs to possible existence. We must still explain why this triple character is found in the first effect, although its principle is only one. We say that from the First Principle only one thing proceeds, namely, the essence of this intellect through which it is conscious of itself. The effect, however, must by itself become conscious of its principle, and this kind of consciousness cannot derive from its cause. Also the effect by itself belongs to possible existence, and i cannot receive this possibility from the First Principle, but possesses it in its own essence. We do indeed regard it as possible that one effect should proceed from the one, although this effect possesses by itself and not through its principle certain necessary qualities, either relative or nonrelative. In this way a plurality arises, and so it becomes the principle of the existence of plurality. Thus the composite can meet the simple, as their meeting must needs take place and cannot take place in any other g manner, and this is the right and reasonable explanation, and it is in this way that this philosophical theory must be understood.

I say:

All these are inventions fabricated against the philosophers by Avicenna, Farabi, and others. But the true theory of the ancient philosophers is that there are principles which are the celestial bodies, and that the principles of the celestial bodies, which are immaterial existents, are the movers of those celestial bodies, and that the celestial bodies move towards them in obedience to them and out of love for them, to comply with their order to move and to understand them, and that they are only created with a view to movement. For when it was found that the principles which move the celestial bodies are immaterial and incorporeal, there was no way left to them in which they might move the bodies other than by ordering them to move. And from this the philosophers concluded that the celestial bodies are rational animals, conscious of themselves and of their principles, which move them by command. And since it was established-in the De Anima-that there is no difference between knowledge and the object of knowledge, except for the latter’s being in matter, of necessity the substance of immaterial beings—if there are such—had to be knowledge or intellect or whatever you wish to call it. And the philosophers knew that these principles must be immaterial, because they confer on the celestial bodies everlasting movement in which there is no fatigue or weariness, and that anything which bestows such an everlasting movement must be immaterial, and cannot be a material power. And indeed the celestial body acquires its permanence only through these immaterial principles. And the philosophers understood that the existence of these immaterial principles must be connected with a first principle amongst them; if not, there could be no order in the world. You can find these theories in the books of the philosophers and, if you want to make sure of the truth in these matters, you will have to consult them. It also becomes clear from the fact that all the spheres have the daily circular movement, although besides this movement they have, as the philosophers had ascertained, their own special movements, that He who commands this movement must be the First Principle, i.e. God, and that He commands the other principles to order the other movements to the other spheres. Through this heaven and earth are ruled as a state is ruled by the commands of the supreme monarch, which, however, are transmitted to all classes of the population by the men he has appointed for this purpose in the different affairs of the state. As it says in the Qur’an: ‘And He inspired every Heaven with its bidding. This heavenly injunction and this obedience are the
prototypes of the injunction and obedience imposed on man because he is a rational animal. What Avicenna says of the derivation of these principles from each other is a theory not known amongst the ancients, who merely state that these principles hold certain positions in relation to the First Principle, and that their existence is only made real through this relation to the First Principle. As is said in the Qur’an: ‘There is none amongst us but has his appointed place. It is the connexion which exists between them which brings it about that some are the effect of others and that they all depend on the First Principle. By ‘agent’ and ‘object’, ‘creator’ and ‘creature’, in so far as it concerns this existence nothing more can be understood than just this idea of connexion. But what we said of this connexion of every existent with the One is something different from what is meant by ‘agent’ and ‘object’, ‘maker’ and ‘product’ in this sublunary world. If you imagine a ruler who has many men under his command who again have others under their command, and if you imagine that those commanded receive their existence only through receiving this command and through their obedience to this command, and those who are under those commanded can only exist through those commanded, of necessity the first ruler will be the one who bestows on all existents the characteristic through which they become existent, and that which exists through its being commanded will only exist because of the first ruler. And the philosophers understood that this is what is meant by the divine laws when they speak of creation, of calling into existence out of nothing, and of command. This is the best way to teach people to understand the philosophical doctrine without the ignominy attaching to it, which seems to attach when you listen to the analysis Ghazali gives of it here. The philosophers assert that all this is proved in their books, and the man who, (raving fulfilled the conditions they impose, is able to study their works will find the truth of what they say—or perhaps its opposite—and will not understand Aristotle’s theory or Plato’s in any other sense than that here indicated. And their philosophy is the highest point human intelligence can reach. It may be that, Nvrerrr it man discover, these explanations of philosophical theory, lie will find that they happen not only to be true but to be generally acknowledged, and teachings which are f;errerally acceptable are pleasing and delightful to all.

One of the premisses from which this explanation is deduced is that when one observes this sublunary world, one finds that what is called ‘living’ and ‘knowing’ moves on its own account in well-defined movements towards well-defined ends and well-defined acts from which new well-defined acts arise. For this reason the theologians say that any act can only proceed from a living, knowing being. When one has found this first premiss, that what moves in well-defined movements from which arise well-defined and ordered actions is living and knowing, and one joins to this a second premiss which can be verified by the senses, that the heavens move on their own account in well-defined movements from which there follow in the existents under them well-defined acts, order, and rank through which these existents under them receive their subsistence, one deduces from this, no doubt, a third principle, namely, that the heavenly bodies are living beings endowed with perception. That from their movements there follow well-defined acts from which this sublunary world, its animals, vegetables, and minerals receive their subsistence and conservation, is evident from observation, for, were it not that the sun in its ecliptic approaches the sublunary world and recedes from it, there would not be the four seasons, and without the four seasons there would be no plants and no animals, and the orderly origination of elements out of each other necessary for the conservation of their existence would not take place. For instance, when the sun recedes towards tile south the air in the north becomes cold and rains occur and the production of the watery element increases, whereas in tile south tile production of the airy element becomes greater; whereas in summer, when the sun approaches our zenith, the opposite takes place. Those actions which the sun exercises everlastingly through its varying distance from the different existents which always occupy one and the same place are also found in the moon and all the stars which have oblique spheres, and they produce tile four seasons through their circular movements, and the most important of all these movements, in its necessity for tire existence and conservation of the creation, is tile highest circular movement which produces day and night. The Venerable Book refers in several verses to the providential care for man which arises out of God’s subjection of all tile heavens to His bidding, as, for instance, in tile Qur’anic verse ‘And the sun and the moon and the stars are subjected to His bidding’, and whrcn man observes these acts and this guidance which proceed necessarily and permanently from tire movenrcnts of tile stars, and sees how these stars move in fixed movements, and drat they have well-defined shapes and move in well-defined directions towards well-defined
actions in opposite motions, he understands that these well-defined acts can only arise from beings perceptive, living, capable of choice and of willing.

And he becomes still more convinced of this when he sees that many beings in this world which have small, despicable, miserable, and insignificant bodies are not wholly devoid of life, notwithstanding the smallness of their size, the feebleness of their powers, the shortness of their lives, the insignificance of their bodies; and that divine munificence has bestowed on them life and perception, through which they direct themselves and conserve their existence. And he knows with absolute certainty that the heavenly bodies are better fitted to possess life and perception than the bodies of this sublunary world, because of the size of their bodies, the magnificence of their existence, and the multitude of their lights,’ as it says in the Divine Words: ‘Surely the creation of the heavens and the earth is greater than the creation of man, but most men know it not. But especially when he notices how they direct the living beings of this sublunary world, does he understand with absolute certainty that they are alive, for the living can only be guided by a being leading a more perfect life. And when man observes these noble, living, rational bodies, capable of choice, which surround us, and recognizes a third principle, namely, that they do not need for their own existence the providence with which they guide the sublunary world, he becomes aware that they are commanded to perform these movements and to control the animals, vegetables, and minerals of this sublunary world, and that He who commands them is not one of them and that He is necessarily incorporeal (for, if not, He would be one of them) and that all these heavenly bodies control the existents which are under them, but serve Him, who for His existence is in need of them. And were it not for this Commander, they would not give their care everlastingly and continuously to this sublunary world which they guide willingly, without any advantage to themselves, especially in this act. They move thus by way of command and obligation the heavens which repair to them, only in order to conserve this sublunary world and to uphold its existence. And the Commander is God (glory be to Him), and all this is the meaning of the Divine Words ‘We come willingly’.

And another proof of all this is that, if a man sees a great many people, distinguished and meritorious, applying themselves to definite acts without a moment’s interruption, although these acts are not necessary for their own existence and they do not need them, it is absolutely evident to him that these acts have been prescribed and ordered to them and that they have a leader who has obliged them in his everlasting service to act continually for the good of others. This leader is the highest among them in power and rank and they are, as it were, his submissive slaves. And this is the meaning to which the Venerable Book refers in the words: ‘Thus did we show Abraham the kingdom of heaven, and the earth that he should be of those who are safe. ‘ And when man observes still another thing, namely, that all the seven planets in their own special movements are subservient to their universal daily motion and that their own bodies as parts of the whole are submissive to the universal body, as if they were all one in fulfilling this service, he knows again with absolute certainty that each planet has its own commanding principle, supervising it as a deputy of the first Commander. Just as, in the organization of armies, I where each body of troops has one commander, called a centurion, each centurion is subordinate to the one Commander-in-chief of the army, so also in regard to the movements of the heavenly bodies which the ancients observed. They number somewhat more than forty, of which seven or eight’-for the ancients disagreed about this -dominate the others and themselves depend on the first Commander, praise he be to Him! Man acquires this knowledge in this way, whether or not lie knows how the principle of the creation of these heavenly bodies acts, or what the connexion is between the existence of these commanders and the first Commander. In any case lie does not doubt that, if these heavenly bodies existed by themselves, that is, if they were eternal and had no cause, they might refuse to serve their own commanders or might not obey them, and the commanders might refuse to obey the first Commander. But, since it is not possible for them to behave in this way, the relation between them and the first Commander is determined by absolute obedience, and this means nothing more than that they possess this obedience in the essence of their being, not accidentally, as is the case in the relation between master and servant. Servitude, therefore, is not something additional to their essence, but these essences subsist through servitude and this is the meaning of the Divine Words: ‘There is none in the heavens or the earth but comes to the Merciful as a servant. And their possession is the kingdom of the heavens and the earth which God showed to Abraham, as it is expressed in the Divine Words: ‘Thus did we show Abraham the kingdom of heaven and earth that he should be of those who are safe. Therefore you will understand
that the creation of these bodies and the principle of their becoming cannot be like the coming to be of the bodies of this sublunary world, and that the human intellect is too weak to understand how this act works, although it knows that this act exists. He who tries to compare heavenly with earthly existence, and believes that the Agent of the divine world acts in the way in which an agent in this sublunary world works, is utterly thoughtless, profoundly mistaken, and in complete error.

This is the extreme limit we can reach in our understanding of the theories of the ancients about the heavenly bodies, of their proof for the existence of a Creator for these bodies who is immaterial, and of their statements concerning the immaterial existents under Him, one of which is the soul. But to believe in His existence as if He were the cause through which these bodies had been produced in time, in the way we see the production of the bodies of this sublunary world, as the theologians desired-this, indeed, is very difficult, and the premisses they use for its proof do not lead them where they desire. We shall show this later, when we discuss the different proofs for the existence of God.

And since this has been firmly established, we shall now go back to relate and refute in detail what Ghazali tells of the philosophers, and to show the degree of truth reached by his assertions, for this is the primary intention of this book.

Ghazali says, refuting the philosophers:

What you affirm are only suppositions and in fact you do nothing but add obscurities to obscurities. If a man were to say that he had seen such things in a dream, it would be a proof of his bad constitution, or if one should advance such arguments in juridical controversies, in which everything under discussion is conjectural, one would say these were stupidities which could not command any assent.

I say:

This is very much the way the ignorant treat the learned and the vulgar the eminent, and in this way, too, the common people behave towards the products of craftsmanship. For, when the artisans show the common people the products of their craftsmanship which possess many qualities from which they draw wonderful actions, the masses scoff at them and regard them as insane, whereas in reality they themselves are insane and ignorant in comparison with the wise. With such utterances as these the learned and the thoughtful need not occupy themselves. What Ghazali ought to have done, since he relates these theories, is to show the motives which led to them, so that the reader might compare them with the arguments through which he wants to refute them.

Ghazali says:

The ways of refuting such theories are countless, but we shall bring here a certain number. The first is that we say: You claim that one of the meanings of plurality in the first effect is that it is possible in its existence, but we ask whether its being possible in its existence is identical with its being or something different? If you say ‘identical’, then no plurality proceeds from it, but if you say that it is different, why then do you not assert that there is a plurality in the First Principle, for it not only has existence, but is necessary in its existence, and existence and necessary existence are not identical. Therefore, because of this plurality in the First Principle, let us allow that different entities proceed from it. If it is said: ‘Necessity of existence cannot mean anything but existence’, we answer: ‘Possibility of existence cannot mean anything but existence. If, however, you say: ‘Its existence can be known without its possibility being known, and therefore they are different,’ we answer: ‘In the same way the existence of the necessary existent can be known without its necessity being known, unless another proof is added,’ let them therefore be different! Generally speaking, existence is a universal which can be divided into necessary and possible, and if the one specific difference is an addition to the universal, the other specific difference is also an addition, for both cases are the same. If you say, ‘It possesses the possibility of its existence through itself and its existence through another, how then can it what it possesses through itself and what it possesses through another be identical?’ we answer: ‘How then can the necessity of its being be identical with its being, so that the necessity of its existence can be denied and its existence affirmed? And to God, the One, the Absolute Truth, negation and affirmation cannot be applied equivocally, for one cannot say of Him that He is and is not, or that His existence is at the same time necessary or not necessary; but it can be said of Him that He exists, but that His
existence is not necessary, as it can be said of Him that He exists, but that His existence is not possible. And it is through this that His Unity can be recognized. But this unity in the First cannot be upheld, if what you say is true, that possibility of existence is something different from the possible existent.

I say:

Ghazali affirms that, when we say of a thing that it is possible in its existence, this must either mean that it is identical with its existence or different from it, i.e. something additional to its existence. If it is identical, there is no plurality, and the statement of the philosophers that there is a plurality in the possible existent has no sense. If, however, it is not identical, the philosophers will have to make the same admission about the necessary existent, i.e. that there is a plurality in it, but this is in contradiction to their own principle. This reasoning, however, is not valid, for Ghazali has overlooked a third case, namely, that necessity of being might be not something added to existence outside the soul but a condition in the necessary existent which adds nothing to its essence; it might be said to refer to the denial of its being the effect of something else, a denial of that which is affirmed of all other entities, just as, when we say of something that it is one, nothing additional to its essence existing outside the soul is meant-as is, on the contrary, the case when we speak of a white existent—but only a negative condition, namely, indivisibility. In the same way, when we speak of the necessary existent, we mean by the necessity of His existence a negative condition which is the consequence of His existence, namely, that His existence is necessary through Himself, not through something else. And also when we speak of the existent which is possible through itself, it is not something additional to its essence outside the soul-as is the case with the real possible—that should be understood, but merely that its essence determines that its existence can become necessary only through a cause; what is meant, therefore, is an essence which will not be by itself necessary in its existence when its cause is removed and therefore is not a necessary existent, i.e. it is denied the quality of necessary existence. It is as if Ghazali said that the necessary existent is partially necessary through itself, partially through a cause, and that which is necessary through a cause is not necessary through itself.

Nobody doubts that these specific differences are neither substantial differences which divide the essence nor additions to the essence, but that they are only negative or relative relations, just as, when we say that a thing exists, the word ‘exists’ does not indicate an entity added to its essence outside the soul, which is the case when we say of a thing that it is white. It is here that Avicenna erred, for he believed that unity is an addition to the essence and also that existence, when we say that a thing exists, is an addition to the things. This question will be treated later. And the first to develop this theory of the possible, possible by itself and necessary through another, was Avicenna; for him possibility was a quality in a thing, different from the thing in which the possibility is, and from this it seems to follow that what is under the First is composed of two things, one to which possibility is attributed, the other to which necessity is attributed; but this is a mistaken theory. But he who has understood our explanation will not be concerned about the difficulty which Ghazali adduces against Avicenna. The only question he will have to ask, when he has understood the meaning of ‘possibility of existence’ for the first effect, is whether this possibility brings about a compound character in the first effect or not, for if the quality is relative, it does not bring about a compound character. For not all the different dispositions which can be imagined in a thing need determine additional qualities in its essence outside the soul; indeed, this is the case with the disposition of privations and relations, and for this reason certain philosophers do not count the category of relation among things which exist outside the soul, i.e. the ten categories. Ghazali, however, implies in his argument that any additional meaning must apply to an additional entity actually outside the soul; but this is a mistake, and a sophistical argument. This follows from his words:

Generally speaking, existence is a universal which can be divided into necessary and possible, and if the one specific difference is an addition to the universal, the other specific difference also is an addition, for both cases are the same.

But the division of existence into possible and necessary is not like the division of animal into rational and irrational, or into walking, swimming, and flying animals, for those things are additional to the genus and provide additional species-animality is their common concept and they are specific differences added to it. But the possible into which Avicenna divides existence is not an entity actually outside the soul, and his theory is wrong, as we said before. For the existence which for its existence is in need of a cause can, as an entity by itself, only be understood as non-existence—that is.
to say, anything that exists through another thing must be non-existent by itself, unless its nature is
the nature of the true possible. Therefore the division of existence into necessary and possible
existence is not a valid one, if one does not mean by ‘possible’ the true possible; but we will treat of
this later. The summary of what we said here is that the existent can be divided either into essential
differences or into relative conditions or into accidents additional to its essence; out of the division
into essential differences there must necessarily result a plurality of acts which arise out of the
existent, but out of the division into relational and accidental dispositions no such plurality of
different acts results. And if it should be claimed that out of relational qualities a plurality of acts
results, well then, a plurality will proceed from the First Principle of necessity without need of the
intervention of an effect as the principle of plurality; on the other hand, if it should be claimed that
out of relational qualities no plurality of acts results, well then, out of the relational qualities of the
first effect also there will result no plurality of acts, and this latter assumption is the better.’

Ghazali says:

How then can what it possesses through itself, and what it possesses through
another, be identical?

But how can this same man who affirms that possibility exists only in the mind, say such a thing?
Why then does he not apply this doctrine here, for it is not impossible for the one essence to be
positive and negative in its relations without there resulting a plurality in this essence-which,
however, Ghazali denies. But if you have understood this, you will be able to solve the problem
Ghazali poses in this section.

If it is said: ‘It follows from this that there is no composition, either in existence, necessary by itself,
or in existence, necessary through another,’ we answer: As to what is necessary through another, the
mind perceives in it a composition through cause and effect; if it is a body, there must be in it both a
unity actually, and a plurality potentially; if it is, however, incorporeal, the mind does not perceive a
plurality either in act or in potency. For this reason the philosophers call this kind of existent simple,
but they regard the cause as more simple than the effect and they hold that the First is the most simple
of them all, because it cannot be understood as having any cause or effect at all. But composition can
be understood of the principles which come after the First; therefore, according to the philosophers,
the second principle is more simple than the third, and it is in this way that their theory must be
understood. The meaning of ‘cause’ and ‘effect’ in these existents is that a potential plurality (as it
were) exists in them which shows itself in the effect, i.e. there proceeds out of it a plurality of effects
which it never contains actually in any definite moments. If the hearer has understood their theory in
this way and accepted it, he will see that they are not affected by the objections of Ghazali. But one
should not understand this theory in the way Ghazali does, namely, that out of the second principle,
because it knows its own essence and knows its principle, and therefore possesses two forms or a dual
existence, there proceed two different things, for this is a false theory. For this would mean that this
second principle is composed of more than one form and that therefore this form’ is one in its
substratum, many by its definition, as is the case with the soul. But the theologians keep tenaciously
to this false explanation in their statements about the derivation of these principles from each other, as
if they wanted to understand the divine through an analogy with perceptible acts; indeed, when
metaphysics contains such theories, it becomes more conjectural than jurisprudence. You will have
seen from this that the conclusion Ghazali wants the philosophers to draw concerning the plurality in
the necessary existent, because of the plurality which he considers must exist in the possible existent,
has no validity. For, if possibility were understood as real possibility, it would indeed imply here a
plurality, but since this is impossible, according to what we have said and shall show later, nothing
similar follows concerning the necessary existent. But if possibility is understood as being a concept
of the mind, it follows that neither the necessary existent nor the possible existent must be regarded as
composite for this reason; the only reason why composition must be admitted here is because of the
relation of cause; and effect.

Ghazali says:

The second objection is that we say: ‘Is the knowledge the first effect has of its
principle identical with its own existence and with the knowledge it has of itself?’ If
so, there is only a plurality in the expression used to describe the essence, not in the
essence itself; if not, this plurality will exist also in the First, for He knows Himself
and He knows others.
I say:

What is true is that the knowledge the first effect has of its principle is identical with its own essence and that the first effect belongs to the domain of relation and is therefore of a lesser rank than the First who belongs to the domain of what exists by itself. It is true, according to the philosophers, that the First thinks only His own essence—something relative, namely, that He is a principle—but His essence, according to the philosophers, contains all intellects, nay, all existents, in a nobler and more perfect way than they all possess in reality, as we shall explain later. Therefore this theory does not imply the abominable consequences he ascribes to it.

Ghazali says:

It may be said by the philosophers that His knowing Himself is identical with His essence, and that he who does not know that he is a principle for others does not know his own essence, for knowledge conforms to the thing known and refers therefore to His essence.

I say:

This statement is wrong, for His being a principle is something relative and cannot be identical with His essence. If He could think that He is a principle, He would be conscious of the things the principle of which He is, in the way these things really exist, and in this case the higher would be perfected through the lower, for the thing known is the perfection of the knower according to the philosophers, as is set forth in the sciences about the human intellect.'

Ghazali says:

But we answer: In this case the knowledge the effect has of itself is identical with its essence, for it thinks with its substance and knows itself, and intellect and knower and thing known are all one. Therefore, if its knowing itself is identical with its essence, well then, let it think itself as the effect of a cause, for this it really is. But the intellect conforms to the thing known; therefore all this refers solely to its essence and so there is no plurality. If, indeed, there is a plurality, it must exist in the First. Therefore, let differentiation proceed from the First.

I say:

What he says here of the philosophers, about the exclusive existence of a plurality in the principles under the First Principle, is wrong and does not follow from their principles. There is, according to them, no plurality in these intellects, and they do not distinguish themselves by simplicity and plurality, but only by being cause and effect. And the difference between the knowledge of the First Principle, as knowing itself, and the knowledge of the other principles, as knowing themselves, is that the First Principle thinks itself as existing by itself, not as being related to a cause, whereas the other intellects think themselves as related to their cause and in this way plurality is introduced into them. They need not all have the same degree of simplicity, since they are not of the same rank in relation to the First Principle and none of them is simple in the sense in which the First Principle is simple, because the First Principle is regarded as an existence by itself whereas they are in related existence.

And as to Ghazali’s words:

Therefore, if its knowing itself is identical with its essence, well then, let it think itself as the effect of a cause, for this it really is. But the intellect conforms to the thing known, and therefore all this refers solely to its essence and so there is no plurality. If, indeed, there is a plurality, it must exist in the First Principle.

I say:

It does not follow from the fact that intellect and the thing known are identical in the separate intellects that they are all similar in simplicity, for in this, according to the philosophers, some are superior to others in a greater or lesser degree; absolute simplicity is only found in the First Intellect, and the reason is that the essence of the First Intellect is subsistent by itself, and the other intellects, when they think themselves, are conscious that they subsist by it; if intellect and the intelligible were in each of them of the same degree of unity as in the First Principle, either the essence existing by reason of itself and the essence existing by reason of another would be congruous, or intellect would not conform to the nature of the intelligible thing,’ which is impossible, according to the philosophers. All these arguments and their answers, as set forth by Ghazali, are dialectical and the only man who can-notwithstanding the deficiency of the human understanding concerning these questions—give a demonstrative argument about them is the man who knows (to begin with) what the
intellect is, and the only man who knows what the intellect is is the man who knows what the soul is, and the only man who knows what the soul is is the man who knows what a living being is. There is no sense in discussing these matters in a superficial way and according to the common notions, which do not contain specific knowledge and are not properly related to the problem. To discuss these questions, before knowing what the intellect is, is nothing more than babbling. The Ash’arites, therefore, when they relate the philosophical doctrines, make them extremely hateful and something very different from even the first speculation of man about what exists.

Ghazali says:

Let us therefore drop the claim of its absolute unity, if this unity is annulled through plurality of this kind.

I say:

Ghazali means that, when the philosophers assume that the First thinks its own essence and knows through this that it is the cause of others, they must conclude that it is not absolutely one. For it has not yet been proved that God must be absolutely one. This is the theory of some Peripatetics who interpreted it as the theory of Aristotle himself.

Ghazali says:

If it is said that the First knows only its own essence, and the knowledge of its own essence is identical with its essence, for intelligence, thinker, and intelligible are all one and it does not know anything but itself—this can be refuted in two ways. First, because of its worthlessness this theory was abandoned by Avicenna and other philosophers of repute, who affirm that the First knows itself as the principle of what emanates from it and knows all other existents in their species by a universal thought, and not individually. For they repudiate the theory that there emanates out of the First Principle, which does not know what emanates from it, only one intellect; that its effect is an intellect from which there emanates an intellect and the soul and the body of a sphere, and that this intellect knows itself and its three effects, whereas its cause and principle knows only itself. For according to this theory the effect is superior to the cause, since from the cause only one thing emanates, whereas from the effect three things emanate; moreover, the First Principle knows only itself, but the effect knows its principle and effects besides itself. Who can be satisfied with the idea that such words can apply to the status of God, for indeed they make Him lower than any of His creatures, who know themselves and know Him, and he who knows Him and knows himself is of a nobler rank than He is, since He knows none but Himself. Their profound thoughts about God’s glory end therefore in a denial of everything that is understood by His greatness, and assimilate the state of God to that of a dead body which has no notion of what happens in the world, with the sole exception that God possesses self-knowledge. So does God deal with those who turn aside from His way and deviate from the path of His guidance, denying His words: ‘I did not make them witnesses of the creation of the heavens and the earth nor of the creation of themselves, ‘ who think wicked thoughts about God, who believe that the powers of man suffice to reach the essence of the divine, who, deceived in their minds, believe that the human understanding is competent to free itself from the authority of the prophets and from obedience to them. For no doubt they are now forced to acknowledge that the quintessenence of their thought is reduced to absurdities which would make one wonder if they were told in a dream.

I say:

One who wants to enter deeply into these speculations must know that much of what is firmly established in the speculative sciences seems at first sight, and compared to the opinions the common man holds about them, like the visions of a dreamer, as Ghazali truly says; many of these truths are deduced from a different kind of premisses from that which satisfies the masses; indeed there is no other way for anyone to become convinced of their truth than that of comprehending them by logical proof and evidence. If, for example, the common man, and even he who has reached a somewhat higher degree of culture, is told that the sun, which appears to the eye as being the size of a foot, is about a hundred and seventy times bigger than the earth, he will say that it is absurd, and will regard him who believes it as a dreamer; and it is difficult for us to convince him through propositions which
he can easily understand and acknowledge in a short time. The only way, indeed, to attain such knowledge is through deductive proof—that is, for the man who is amenable to proof. If it is the case even with geometrical questions and mathematical problems in general, that, when a solution is explained to the common man, it will appear to him fallacious and open to criticism at first sight and to have the character of a dream, how much more this will be the case in the metaphysical sciences, since for this kind of knowledge there are no plausible premisses which satisfy the superficial understanding, by which I mean the understanding of the masses. One might say that the final knowledge the understanding can reach will seem to the common man at first sight something absurd. And this happens not only in the theoretical sciences but in the practical sciences as well. Therefore, the assumption that one of the sciences should vanish and then come into existence again, at first sight would seem to be impossible. For this reason many have thought that those sciences are of supernatural origin and some attribute them to the Jinn, others to the prophets, so that Ibn Hazm goes so far as to affirm that the strongest proof of the existence of prophecy is the existence of these sciences. Therefore, if a lover of truth finds a theory reprehensible and does not find plausible premisses which remove its reprehensible character, he must not at once believe that the theory is false, but must inquire how he who puts it forward has arrived at it, must employ much time in learning this, and follow the systematic order corresponding to the nature of the topic. And if this is necessary in other sciences than metaphysics, how much more will this hold for metaphysics, since that science is so remote from the sciences built on common sense. Thus it should be learned that in metaphysics rhetorical reasoning cannot be applied, as it may be applied in other questions; for dialectics is useful and permissible in the other sciences but forbidden in this. For this reason most students of this science seek refuge in the theory that metaphysics is wholly concerned with the qualification of the substance which the human mind cannot qualify, for if it could do so, the eternal and the transitory would be on the same level. If this is so, may God judge him who discusses these questions with common opinions and who argues about God without scientific knowledge. So it is often thought that the philosophers are extremely inefficient in this science, and for this reason Ghazali says that metaphysics is only conjectural.

But in any case we shall try to show some plausible premisses and true propositions—and we try this only because Ghazali gave such a false representation of this noble science and denied people the possibility of attaining happiness through excellent acts, and God is the inquirer and the reckoner—in order to set out the motives which moved the philosophers to believe these theories about the First Principle and other existents, the limit which the human understanding can reach in this matter, and the doubts which beset these problems; and we shall show all this also in respect to the Muslim theologians and indicate how far their wisdom attained. We hope through this to help the lover of knowledge to find the truth, and to urge him to study the sciences of both parties, hoping also that God may assist him in all this!

We say:
The philosophers tried to acquire knowledge about reality through speculation alone, without relying on the words of anyone who should induce them to acquiesce in them without proof; on the contrary, sometimes through speculation they came into contradiction with the facts as shown by the senses. They discovered that the sublunary world can be divided into two classes, the living and the inanimate, any instance of which only comes into being through something, called form, which is the entity by which it comes into being after having been non-existent; through something, called matter, out of which it comes into being; through something, called the agent, from which it comes into being; and through something, called the end, for the sake of which it comes into being; and so they established that there are four causes. And they found that the form by which a thing comes into being, i.e. the form of the thing generated, is identical with the proximate agent, from which it comes into being, either in species, like the generation of man out of man, or in genus, like the generation of the mule from a horse and a donkey. And since, according to them, the causes do not form an infinite series, they introduced a primary, permanent efficient cause. Some of them believed that the heavenly bodies are this efficient cause, some that it is an abstract principle, connected with the heavenly bodies, some that it is the First Principle, some again that it is a principle inferior to it,’ and these philosophers thought it sufficient to regard the heavens and the principles of the heavenly bodies as the cause for the coming into being of the elements, since according to them they too need an efficient cause. As to the generation of living beings from each other in the sublunary world, the philosophers
had, because of this faculty of life, to introduce another principle, which was the bestower of soul and of form, and of the wisdom which is manifested in this world. This is what Galen calls the formative faculty’ and some regard it as an abstract principle, some as an intellect, some as a soul, some as the body of the heavens, and some as the First. Galen called this potency the demiurge and was in doubt whether it is God or another principle. This faculty acts in the generative animals and in plants, and is needed still more in those plants and animals which have an equivocal generation. This was the point they reached in the examination of the sublunary world.

When they had agreed that the heavens were the principles of the perceptible bodies, they investigated the heavens also and agreed that the heavenly bodies are the principles of the changeable perceptible bodies and of the species in the sublunary world, either by themselves or in combination with an abstract principle. And from their investigation of the heavenly bodies it appeared to them that these do not come into being in the way that the transitory things of the sublunary world come into being, for what comes into being, in so far as it comes into being, is seen to be a part of this perceptible world and its coming into being is only effected in so far as it is a part of it, for what has come into being has come into being out of something, through the act of something, by means of something, in time and in space. And they discovered that the celestial bodies are, as remote efficient causes, a condition for the coming into being of perceptible things. If, however, the celestial bodies themselves had come into being in this way, they would, as a condition of their becoming, have required prior to them other bodies which would have needed to be parts of another world, and there would be in this other world bodies like these, and if these bodies had also come into being, they would have required other celestial bodies before, and so ad infinitum. And since this was established in this way and many others, they were convinced that the heavenly bodies neither come into being nor are destroyed in the way that sublunary things come into being and are destroyed, for ‘coming into being’ has no other definition or description or explanation or meaning than that which we have laid down here. Then they found that the celestial bodies have also moving principles by means of which and by the agency of which they are moved. And when they investigated their principles, they found that the moving principles were neither bodies nor potencies in bodies. They are not bodies because they are the first principles of the bodies encircling the world; they are not potencies in bodies, i.e. their bodies are not a condition for their existence (as is the case in this sublunary world with the composite principles in animals), because any potency in a body is, according to the philosophers, finite, since it can be divided through the division of the body’ and every body which can be divided is generable and corruptible, i.e. composed of matter and form, and the existence of its matter is a condition for the existence of its form. And again, if the principles of heavenly bodies were like the principles of earthly bodies, the former would be like the latter and would need other bodies prior to them. Thus they were convinced of the existence of incorporeal principles which are not potencies in a body.

Moreover, they had already found, concerning the human intellect, that form has two modes of existence, a sensible existence in matter, as in the stone there is the form of the inorganic which exists in the matter outside the soul, and an intelligible existence, namely, perception and intellect, which is separate from matter and exists in the soul. From this they concluded that these absolutely abstract existences are pure intellects, for if what is separated from another is already intellect, how much better suited to be intellect will something be that is absolutely separates And so, of necessity, they deduced that the objects of thought of those intellects are the forms of the existents and of the order which exists in the world, as is the case with the human intellect, for the human intellect is nothing other than the perception of the forms of the existents, in so far as they are without matter. They concluded, therefore, that existents have two modes of existence, a sensible existence and an intelligible existence, and that the relation between sensible and intelligible existence is like the relation between the products of art and the arts of the craftsman, and they believed therefore that the heavenly bodies are conscious of these principles and that they can only guide what exists in the sublunary world because they are animated. And when they compared the separate intellects with the human intellect, they found that these intellects are superior to the human intellect, although they have it in common with the human intellect that their intelligibles are the forms of existents, and that the form of each of these intellects is nothing but the forms and the order of the existents it perceives, in the way that the human intellect is nothing but the forms and the order of the existents it perceives. The difference between these two kinds of intellect is that the forms of the existents are a cause of the
human intellect, since it receives its perfection through them, in the way that the existent is brought into being through its form, whereas the intelligibles of these intellects are the cause of the forms of the existents. For the order and arrangement in the existents of this sublunary world are only a consequence and result of the order which exists in these separate intellects; and the order which exists in the intellect which is in us is only a consequence of the order and arrangement which it perceives in the existents, and therefore it is very imperfect, for most of this order and arrangement it does not perceive. If this is true, there are different degrees in the forms of the sensible existents; the lowest is their existence in matters, then their existence in the human intellect is superior to their existence in matters, and their existence in the separate intellects is still superior to their existence in the human intellect. Then again they have in the separate intellects different degrees of superiority of existence, according to the different degrees of superiority in these intellects in themselves.

And again when they investigated the body of the heavens they found that in reality it is one unique body similar to one single animal, and that it has one general movement-which is like the general movement of the animal which moves the whole body of the animal—namely, the daily movement, and they found that the other heavenly bodies and their individual movements were similar to the particular members of a single animal and its particular movements. And they believed, because of this connexion between these bodies, their referring to one body and to one end, and their collaboration in one act—namely, the world in its totality—that they depended on one principle, as happens to different arts which aim at one product and which depend on one primary art. For this reason they believed that these abstract principles depend on a unique abstract principle which is the cause of all of them, that the forms and the order and arrangement in this principle are the noblest existence which the forms, the order, and the arrangement in all reality can possess, that this order and arrangement are the cause of all the orders and arrangements in this sublunary world, and that the intellects reach their different degrees of superiority in this, according to their lesser or greater distance from this principle. The First amongst all these principles thinks only its own essence and, by thinking its essence, thinks at the same time all existents in the noblest mode of existence and in the noblest order and arrangement. The substance of everything under the First Principle depends on the way in which it thinks the forms, order, and arrangement which exist in the First Intellect; and their greater or lesser superiority consists only in this. They conclude therefore that the inferior cannot think the superior in the way the superior thinks its own essence, nor does the superior think the inferior in the way the inferior thinks its own essence; this means that no one of any pair of existents can be of the same rank as its fellow, since if this were possible they would have become one and would not form a numerical plurality. Because of this they say that the First thinks only its own essence, and that the next principle can think only the First, but cannot think what is under itself, because this is its effect and if it should think its effect, the effect would become a cause. The philosophers believe that the consciousness which the First has of its own essence is the cause of all existents, and that which each of the intellects inferior to it thinks is in part the cause of those existents the creation of which pertains especially to it, in part the cause of its own essence, i.e. the human intellect in its universality.

It is in this way that the doctrine of the philosophers concerning these things and concerning the motives which lead them to these beliefs about the world must be understood. On examination they will not be less convincing than the motives of the theologians of our religion, first the Mu’tazilites and secondly the Ash’arites, which lead them to their view of the First Principle. They believed, namely, that there exists an essence—neither corporeal, nor in a body—which is living, knowing, willing, provided with power, speaking, hearing, and seeing, while the Ash’arites, but not the Mu’tazilites, held besides that this essence is the agent of everything without intermediary and knows them with an infinite knowledge, since the existents themselves are infinite. The Ash’arites denied the existence of causes, and professed that this living, knowing, willing, hearing, seeing, powerful, speaking essence exists in continuous existence connected with everything and in everything. But this assumption may be thought to imply consequences open to criticism, for an essence with qualities as mentioned above must necessarily be of the genus of the soul, for the soul is an essence, incorporeal, living, knowing, provided with power, willing, hearing, seeing, speaking, and therefore these theologians assumed the principle of reality to be a universal soul, separated from matter in a way they did not understand.’

We shall now mention the difficulties which result from this assumption. The most obvious one
concerning their theory of the qualities is that there must exist a composite, eternal essence and therefore an eternal compound, which contradicts the Ash’arite theory that every compound is temporal, because it is an accident and every accident is according to them a temporal product. They assumed besides that all existents are possible acts, and they did not believe that there is in them an order, a proportion, and a wisdom which the nature of these existents requires; no, they held that all things could be different from what they are and this applies necessarily also to the intellect; still, they believed that in the products of art, to which they compared the products of nature, there exist order and proportion, and this was called wisdom, and they called the Creator wise. The argument by which they tried to show that there is in the universe something like this principle was that they compared natural acts to acts of will and said that every act, in so far as it is an act, proceeds from an agent endowed with will, power, choice, life, and knowledge, and that the nature of an act, in so far as it is an act, demands this; and they tried to prove the truth of this by arguing that what is not living is inorganic and dead, and, since from the dead there cannot proceed any act, there does not proceed any act from what is not alive. Thus they denied the acts which proceed from natural things and moreover they refused to admit that the living beings which we see in the empirical world have acts; they said that these acts seem connected with the living in the empirical world, but their agent is only the living God in the divine world. But the logical conclusion for them would be that there is in the empirical world no life at all, for life is inferred from things in the empirical world, because of their acts; and further, it would be interesting to know how they arrived at this judgement about the divine world.

The manner in which they established this creator was by assuming that every temporal product must have a cause, but that this cannot go on infinitely, and that therefore of necessity the series must end in an eternal cause; and this is true enough, only it does not follow from this that this eternal principle cannot be body. They need therefore the additional proposition that a body cannot be eternal, but this proposition causes them many difficulties. For it is not sufficient for them to prove that this world is produced, since it might still be argued that its cause is an eternal body which has none of the accidents, no circular movements, nor anything else, through which—although they themselves admitted an eternal composite being—they proved that the heavens must be produced. Now, having assumed that the heavenly body has been produced, they supposed that this production had taken place in quite a different way from what is understood by production in the empirical world. In the empirical world, namely, things are produced from something, in time and space, and with a definite quality, not in their totality, and in the empirical world there is no production of a body from that which is not a body. Nor did they suppose its agent to act like an agent in the empirical world, for the empirical agent changes one quality in the existent into another; it does not change absolute nonexistence into existence—no, it brings the existent into a form and an intelligible quality through which this existent becomes another existent instead of this, different from it in substance, definition, name, and act, as it is expressed in the Divine Words: ‘We have created man from [an extract of] clay, then we made him a clot in a sure depository, then we created the clot congealed blood, and we created the congealed blood a morsel, etc. It is for this reason that the ancient philosophers believed that the absolute existent neither comes into existence nor can be destroyed.

Now, if one concedes to the theologians that the heavens were created in time, they are unable to prove that they are the first of created things, as is the evident meaning of what is said in the Venerable Book in more than one verse, for instance, in the Divine Words, ‘Do not those who misbelieve see that the heavens and the earth were both solid, &c.? and in the words, ‘and His throne was upon the water’ and in the words, ‘then He made for heaven and it was but smoke, &c.’ And as concerns this agent, according to the theologians, it creates the matter and the form of that which becomes, if they believe that it has a matter, or it creates the thing in its totality, if they believe it to be simple in the way they believe the atom to be simple; and if this is so, this kind of agent changes either non-existence into existence, namely, when there is generation, that is when the atom, which according to them is the element of the bodies, comes into being; or existence into non-existence, namely, when there is destruction, that is, when the atom is destroyed. But it is clear that an opposite cannot be changed into its opposite, and that non-existence itself cannot become existence nor warmth itself cold. It is the privation which becomes existent, it is the warm thing which becomes cold and the cold thing which becomes warm, and for this reason the Mu’tazilites say that privation is an entity although they deprive this entity of the attribute of existence before the becoming of the world. And their arguments by which they believe it can be proved that a thing does not come into
being from another thing are incorrect. The most plausible of them is their affirmation that, if a thing came into being from another thing, this would imply an infinite regress. The answer is that this is only impossible for production in a straight line, which, indeed, needs an infinite existence in act; but, as to circular production, it is not impossible that, for instance, fire should come from air and air from fire ad infinitum, while the substratum is eternal. They support their theory of the temporal production of the universe by saying that that which cannot be devoid of things produced must itself be produced, and the universe, being the substratum of the things that are produced, must therefore be produced. The greatest mistake in this argument, when its premiss is conceded, is that it is a false generalization, for that which cannot be devoid of things produced in the empirical world is a thing produced out of something else, not out of nothing, whereas they assume that the universe is produced out of nothing. Further, this substratum which the philosophers call primary matter cannot be devoid of corporeality according to the philosophers, and, according to the philosophers, absolute corporeality is not produced. Besides, the premiss which affirms that what cannot be devoid of things produced is produced, is only true when the things produced of which it cannot be devoid are individual things, but if the things produced are one generically, they have no initial term; and from whence then should it follow that their substratum must be produced? And since among the theologians the Ash'arites understood this, they added to this proposition another, namely, that it is not possible that infinite generated things (i.e. without initial and final term) should exist, a proposition which the philosophers regard as necessary. Such difficulties follow from the assumption of the theologians, and they are much more numerous than those which can be held against the philosophers.

And again their assumption that the identical agent which is the First Principle is an agent for everything in the world without an intermediary contradicts the evidence of the senses that things act upon other things. Their most convincing argument on this point is that, if the agent were an effect, this would lead to an infinite regress. But this would only follow if the agent were agent only in so far as it is effect, and if what is moved were the mover, in so far as it is moved, but this is not the case; on the contrary the agent is only agent in so far as it is an actual existent, for the non-existent does not produce any effect. What follows from this is not that there are no acting effects, as the theologians thought, but that the acting effects end in an agent which itself is not an effect at all. Further, the impossibility which is the consequence of their deduction is still greater than the impossibility which follows from the premisses from which they draw this conclusion. For if the principle of the existents is an essence, endowed with life, knowledge, power, and will, and if these qualities are additional to its essence and this essence is incorporeal, then the only difference between the soul and this existent is that the soul is in a body and this existent is a soul which is not in a body. But that which has such a quality is necessarily composed of an essence and attributes, and each compound requires of necessity a cause for its being a compound, since a thing can neither be compounded by itself nor produced by itself, for producing, which is an act of the producer, is nothing but the putting together of the product. And, in general, just as for each effect there must be an agent, so for each compound there must be an agent which puts it together, for the putting together is a condition of the existence of the compounds. And nothing can be a cause of the condition of its own existence, because this would imply that a thing should be its own cause. Therefore the Mu'tazilites assumed that these attributes in the First Principle refer to its essence and are nothing additional to it, in the way in which this happens with many essential qualities in many existents, like a thing's being existent and one and eternal and so on. This comes nearer to the truth than the theory of the Ash'arites, and the philosophers' theory of the First Principle approaches that of the Mu'tazilites.

We have now mentioned the motives which led these two parties to their theories about the First Principle, and the conclusions which their adversaries can draw from them and hold against them. As concerns the objections against the philosophers, Ghazali has related them in full; we have answered some of them already, and we will answer some of them later. The difficulties which beset the theologians we have shown in this discussion in detail.

We shall now return to distinguish the degree of conviction and plausibility reached by the different statements which Ghazali makes in this book, as we proposed to do, and we were only compelled to mention the plausible propositions which led the philosophers to their theories about the principles of the universe because they answer the objections which their adversaries, the theologians, adduce against them; on the other hand, we mentioned the difficulties which beset the theologians because
is only right that their arguments on this problem should be known and their views represented, since they are free to use them as they wish. It is right, as Aristotle says, that a man should adduce the arguments of his adversaries as he brings forward his own; that is, he should exert himself to find the arguments of his opponents in the same way as he exerts himself to find the arguments of his own school of thought, and he should accept the same kind of arguments from them as he accepts when he has found the arguments himself.’

We say: The objection that the First Principle, if it can think only its own essence, must be ignorant of everything it has created would be only a valid inference if the way it thinks its essence were to exclude all existents absolutely. But the philosophers mean only that the manner in which it thinks its own essence includes the existents in their noblest mode of existence, and that it is the intellect which is the cause of the existents; and that it is not an intellect because it thinks the existents, in so far as they are the cause of its thinking, as is the case with our intellect. The meaning of their words, that it does not think the existents which are under it, is that it does not think them in the way we think them, but that it thinks them in a way no other thinking existent can think them, for if another existent could think them in the way it thinks them, it would participate in the knowledge of God, and God is far too exalted for this. This is a quality which is peculiar to God, and for this reason certain theologians concluded that God, besides the seven qualities which they attribute to Him, has yet another which is peculiar to Him. Therefore His knowledge can be described neither as universal nor as individual, for both the universal and the individual are effects of existents, and the knowledge of both universal and individual is transitory. We shall explain this still better when we discuss the question whether God knows individuals or does not know them, as the philosophers mostly assert when they pose this problem, and we shall explain that the whole problem is absurd in relation to God. This problem as a whole is based on two necessary points. First, if God thought existents in such a way that they should be the cause of His knowledge, His intellect would necessarily be transitory and the superior would be brought into being through the inferior. Secondly, if His essence did not contain the intelligibles of all things and their order, there would exist a supreme intellect which would not perceive the forms of existents in their order and proportion. And since these two cases are absurd, it follows that when this principle thinks its own essence, these existents exist in it in a nobler mode than that in which they exist by themselves. And that one and the same existent can have different degrees of existence can be shown from what occurs with colour. For we find that colour has different degrees of existence, some higher than others; the lowest degree is its existence in matter, a higher degree is its existence in sight, for it exists in such a way that the colour becomes conscious of itself, whereas existence in matter is an inorganic existence without consciousness; further, it has been proved in the science of psychology that colour has also an existence in the imaginative faculty, and this is a superior existence to its existence in the faculty of sight; it has equally been shown that it has an existence in the remembering faculty superior to that in the imaginative faculty, and, finally, it has in the intellect an existence superior to all these existences. Now, in the same way, we are convinced that it has in the essence of the First Knowledge an existence superior to all its other existences, and that this is the highest degree of existence possible.

As for what Ghazali mentions concerning the philosophical theory of the order in the emanation of these separate principles and of the number of entities which emanate out of each of them, there is no proof that this really takes place and that this happens exactly in this way; and the form in which Ghazali relates it is therefore not to be found in the works of the ancient philosophers. But these philosophers all agree on the theory that the principles, both separate and nonseparate, all emanate from the First Principle, and that through the emanation of this unique power the world in its totality becomes a unity, and that through this power all its parts are connected, so that the universe aims at one act, as happens with the one body of an animal; which, however, has different potencies, members, and acts; and indeed the world is according to the learned one and the same existent only because of this one power which emanates from the First Principle. And they agree about all this, because according to them the heavens are like a single animal and the daily movement which is common to all the heavens is like the animal’s general movement in space, and the particular movements which the different parts of heaven have are like the particular movements of the members of the animal. And the philosophers had already proved that there is one power in the animal through which it becomes one and through which all the potencies which it possesses tend towards one act, that is, towards the preservation of the animal, and all these potencies are connected.
with the potency which emanates from the First Principle; and if this were not the case, its parts would disconnect themselves and it would not persist for the twinkling of an eye. If, however, it is necessary that for a single animal there should be a single spiritual potency, permeating all its parts, through which the plurality of potencies and bodies in it becomes unified, so that it can be said of its bodies and potencies that they are one, and if, further, the relations of individual beings to the universe in its totality are like the relation of the parts of an animal to the animal itself, it needs must be the case that all the potencies in the particular parts of this unique animal and in the psychological and intellectual motive powers of these parts should be such that there is in them one single spiritual force which connects all the spiritual and bodily potencies and which permeates the universe in one and the same penetration. If this were not the case, no order and no proportion would exist. And in this way it is true that God is the creator, supporter, and preserver of everything, and to this the Divine Words apply: 'Verily, God supports the heavens and the earth lest they should decline.' And it in no way follows from the fact that this one potency permeates many things that there should be a plurality in it, as those thought who said that from the First Principle there can in the first place emanate only one from which plurality can then emanate; for this statement can only be regarded as valid if the immaterial agent is compared to the material agent. Therefore the term ‘agent’ can only be applied equivocally to both the immaterial agent and the material. And this will explain to you the possibility of the procession of plurality from the Monad.

Again, the existence of all other separate principles consists only in the forms in which they conceive the First Principle, and it is not impossible that this should be one identical thing, notwithstanding the difference of the forms in which they conceive it, in the same way as it is not impossible that a plurality should be conceived through one and the same form. And we find, indeed, that all the heavenly bodies in their daily movement, and the sphere of the fixed stars, conceive one identical form and that they all, moving in this daily movement, are moved by one and the same mover, who is the mover of the sphere of the fixed stars; and we find, too, that they have also different particular movements. Therefore it needs must be that their movements proceed partly from different movers, partly namely through the connexion of their movements with the first sphere—from one unique mover. And just as the removal of an organ or a potency vital to the whole animal would invalidate all the organs and potencies of this animal, so the same applies to heaven with respect to its parts and its moving potencies, and in general with respect to the principles of the world and their parts in relation to the First Principle and in their mutual relations. According to the philosophers the world is closely similar to a single state: a state is upheld through one ruler and many deputies subordinate to him; all the deputies in the state are connected with the first ruler, because the authority of each of them is based on him alone, with respect to the ends and the order of the acts which lead to these ends for the sake of which these deputies exist; and so is the relation of the First Ruler in the world to His deputies. And it is evident to the philosophers that he who bestows on the immaterial existents their end is identical with him who bestows on them their existence, for according to them form and end are identical in this kind of existent and he who bestows on these existents both form and end is their agent. And therefore it is clear that the First Principle is the principle of all these principles, and that He is an agent, a form, and an end. And as to His relation to the sensible existents, He is—since He bestows on them the unity which causes their plurality and the unification of their plurality—the cause of all of them, being their agent, form, and end, and all the existents seek their end by their movement towards Him, and this movement by which they seek their end is the movement for the sake of which they are created, and in so far as this concerns all existents, this movement exists by nature, and in so far as this concerns man, it is voluntary. And therefore man is of all beings the one charged with duty and obligation. And this is the meaning of the Divine Words: ‘Verily, we offered the trust to the heavens and the earth and the mountains, but they refuse to bear it and shrank from it; but man bore it: verily he is ever unjust and ignorant.’

And the philosophers only assert that, although all these ruling principles proceed from the First Principle, it is only some of them that do so directly, whereas others, ascending gradually from the lower world to the higher, proceed mediately. For they discovered that certain parts of heaven exist for the sake of the movements of other parts, and they related them in each instance to a first principle, till they finally arrived at the absolutely First Principle; and so it was evident to them that there was one unique order and one unique act in which they all participate. But to ascertain the order, which he who contemplates reality and aspires to the knowledge of the First Principle
perceives, is difficult, and what human understanding can grasp of it is only its general principle. What led the philosophers to believe in a gradation of these principles, in conformity with the spatial order of their spheres, is that they saw that the highest sphere seems in its action superior to what is under it, and that all the other spheres follow its movement. And therefore they believed that what was said about their order was based on their spatial order. But one might perhaps object that the order in the spheres is perhaps only based on their activity, not on their spatial order; for since it seemed that the activities and movements of the planets exist because of the movement of the sun, perhaps their movers in setting them in motion follow the sun, and the movement of the sun derives perhaps directly from the First. For this reason there are in this question no indubitable assertions, but only assertions more or less plausible and likely to be true. And since this is established, let us now return to our subject.

Ghazali says:

The second answer is: people say of the First Principle that it knows only itself, because they want to avoid the implication of plurality in it, for the statement that it knows another would imply a duality: its knowing itself and its knowing another. However, the same applies to the first effect: it must necessarily know only itself. If it knew another and not itself alone, there would have to be a different cause for its knowing another than that for its knowing itself, but there is no other cause than that for its knowing itself, namely the First Principle. So it can only know itself, and the plurality which arose in this way disappears.

If it is said that it follows from its existence and from its knowing itself that it must know its principle, we answer: Does this necessity arise from a cause or without a cause? If the former is the case, there is no other cause than the one first cause from which only one effect can proceed, and indeed has proceeded, namely this first effect itself; how, therefore, could this second effect proceed from it? In the latter case, then, let the existence of the First Principle imply a plurality of existents without a cause, and let the plurality follow from them! But if such a thing cannot be imagined, because the necessary existent can be only one, and anything added to it must be a possible, and the possible needs a cause, then the following conclusion must be drawn concerning the effect: if it is an existent necessary by itself, then what the philosophers say is untrue, that there is only one necessary existent; if it is a possible, then it needs a cause; but it has no cause, and therefore it cannot know the existence of its cause.

There is no special necessity for the first effect to have a possible existence; this is necessary for any effect. However, that the effect should know its cause is not necessary for its existence, just as the knowledge of its effect is not necessary for the existence of the cause; still, it seems more plausible that the cause should know its effect than that the effect should know its cause. Therefore the plurality which would arise from its knowing its principle is impossible; there is no principle for this knowledge and it is not a necessary consequence of an effect that it should know its principle; and out of this there is no issue.

I say:

This is a proof of one who affirms that the First Principle must, besides knowing itself, know its effect; for, if not, its knowing itself would be imperfect.

The meaning of Ghazali’s objection is that the knowledge the effect has of its principle must either be based on a cause or be without a cause. In the former case, there must be a cause in the First Principle, but there is none; in the latter case, a plurality must follow from the First Principle, even if it does not know it; if, however, a plurality follows from it, it cannot be a necessary existent, for there can be only one necessary existent, and that from which there proceeds more than one is only a possible existent; but the possible existent needs a cause, and therefore their assertion that the First Principle is a necessary existent is false, even if it does not know its effect. He says also that if it is not a necessity of its existence that the effect should have knowledge of its cause, it even seems more fitting that it is not a necessity of its existence that the cause should know its effect.

My answer to this is that all this is sophistical. If we assume that the cause is an intellect and knows its effect, it does not follow that this is an addition to the essence of the cause; on the contrary, it belongs to the essence itself, since the emergence of the effect is the consequence of its essences And
it is not true that if the effect proceeds from the First Principle not because of a cause, but because of the essence of this principle, a plurality proceeds from it, for according to the thesis of the philosophers the emergence of the effect depends on the essence of the First Principle: if its essence is one, one proceeds from it; if many, many proceed from it. What he assumes in this discussion, namely, that every effect is a possible existent, is only true for the composite effect, for there cannot be a compound that is eternal, and everything that is of a possible existence is generated, according to the philosophers, as Aristotle has shown in different passages of his works; and we shall prove this more fully later in our discussion of the necessary being. What Avicenna calls the possible existent has only its name in common with what is in reality the possible existent; it is, therefore, by no means clear that it needs an agent in the way it is clear that the possible existent needs an agent.

Ghazali says:

The third objection is: Is the self-knowledge of the first effect identical with its essence or not? If the former, this is impossible, for knower and known cannot be identical; if the latter, let the same apply to the First Principle, so that plurality will follow from the First Principle. And if the self-knowledge of the effect is not identical with the essence of the effect, there will not only be a triplicity in the effect, as they affirm, but a quadruplicity, to wit: its essence, its knowledge of itself, its knowledge of its principle, and its being a possible existent by itself, and to this it should perhaps be added that it is an existent necessary through another-and then it would be fivefold. From this you can see and measure the depth of their ignorance.

I say:

In this discussion of the intellects there are two points: first the question about what these intellects know or do not know (this question was fully treated by the ancients); secondly, the question of what proceeds from these intellects. What Ghazali mentions here as the theory of the philosophers is in fact the individual opinion of Avicenna on this latter problem. Ghazali exerts himself especially to refute him and his followers, in order to create the impression that he has refuted them all; and this is acting like one who is, as he puts it, in the depths of ignorance. But this theory is not found in the works of any of the ancients; and there is no proof of it except the supposition that from the one there can proceed only one. But this proposition does not apply in the same way to the agents which are forms in matter as to the agents which are forms separate from matter, and according to the philosophers an intellect which is an effect must necessarily know its principle, and there are here not two entities, i.e. the intellect and something additional to its essence, for, if so, it would be a compound, and the intellect, which is simple, cannot be composite. And the difference in the separate forms between cause and effect is that the First Cause exists by itself and the second cause exists through its relation with the First Cause, for the fact of its being an effect lies in its substance and is not an additional entity, in contrast with material effects; e.g. colour is an entity which exists by itself in a body, but it is the cause of sight, in so far as it is related, and sight has no existence except in this relation; and in the same way substances which are separate from matter are substances which are of the nature of relation. For this reason the cause and the effect are unified in the forms separated from matter, and in the same way sensible forms are of the nature of relation, as has been proved in the book on psychology.

Ghazali says:

The fourth objection is that it can be said: Triplicity is not sufficient in the first effect, for the body of heaven which, according to the philosophers, proceeds from one entity out of the essence of its principle is composite, and this in three ways.

The first way is that it is composed of form and matter, as is body generally, according to the philosophers, and both must have a principle, since matter differs from form and they are, according to the philosophers, interdependent causes, so that the one cannot come into being by means of the other without the intervention of another cause.

I say:

What he says here is that according to the philosophers the body of the heavens is composed of matter, form, and soul, and that therefore there must be in the second intellects from which the body of the heavens proceeds, four entities, namely, one from which the form proceeds, one from which the hyle proceeds-as both are interdependent, for matter is in one way a cause of form and form in one
way a cause of matter—one from which the soul proceeds, and one from which the mover of the second sphere proceeds. But the view that the body of the heavens is composed of form and matter like other bodies is falsely ascribed by Avicenna to the Peripatetics. On the contrary, according to them the body of the heavens is a simple body; if it were composite, it would, according to them, suffer corruption, and therefore they say that it neither comes into being nor perishes, and does not possess the potency for contraries. If it were as Avicenna says, it would be composite like a living being, and if this were true, quadruplicity would be a necessary consequence for the man who asserted that from the one only one can proceed. And we have already stated that the way these forms are causes for each other, for the heavenly bodies, and for the sublunary world, and the way the First Cause is a cause for all of them, is quite different from all this.

Ghazali says:

The second way is that the highest sphere has a definite measure of size, and its determination by this special measure taken from among all other measures is an addition to the existence of its essence, since its essence might be smaller or bigger than it is; therefore, it must have a determinant for this measure, added to the simple entity which causes its existence. The same necessity does not exist for the existence of the intellect, which is pure existence and not specified by any measure taken from among other measures, and therefore may be said to need only a simple cause.

I say:

The meaning of this statement is that when the philosophers say that the body of the sphere proceeds as a third entity, which by itself is not simple (for it is a body possessing quantity), there are here in reality two entities, the one which provides the substantial corporeality, the other the definite quantity; therefore there must be in the intellect from which the body of the sphere proceeds more than one entity, and therefore the second cause is not triple but quadruple. But this is a false assumption, for the philosophers do not believe that body in its entirety proceeds from the separate principles; if anything proceeds from them, according to the philosophers, it is only the substantial form, and according to them the measures of the bodily parts follow from the forms; this, however, refers only to the forms in matter, but the heavenly bodies, since they are simple, are not susceptible of measure. Therefore, to assume that form and matter proceed from an abstract principle is by no means in conformity with philosophical principles, and is quite absurd. In reality, the agent in transitory things, according to the philosophers, produces neither the form nor the matter; it only makes a compound out of matter and form. If the agent produced the form in matter, it would produce the form in something, not from something. This is not philosophical theory, and there is no sense in refuting it, as if it were.

Ghazali says, on behalf of the philosophers:

It might be said: If the sphere were bigger than it is, this greater size would be superfluous for the order of the universe; if smaller, it would not suffice for the intended order.

I say:

He means by this statement that the philosophers do not believe that, for example, the body of the sphere could be bigger or smaller than it is, for in either case the order intended in the universe would not be realized, and the sphere would not set the world in motion according to its natural power, but either too strongly or too weakly, both of which would involve the corruption of the world. A greater size of the world would not be a superfluity, as Ghazali says; no, out of both, bigness and smallness, the corruption of the world would result.

Ghazali says, to refute the philosophers:

We answer: Does the determination of the manner of this order suffice in itself for the existence of what possesses this order, or does it need a cause to effect it? If you believe it suffices, then you regard it as superfluous to assume causes at all, and you may well judge that from the order of these existents the existents themselves result without any additional cause; if, however, you believe it does not suffice, but a cause is necessary, this new cause will not suffice either for the specification of these measures, but will itself need a cause for its specifying.

I say:

The summary of this is that he makes the objection against them that in the body there are many
things which cannot proceed from one agent, unless they admit that many acts can proceed out of one agent, or unless they believe that many accidents of the body result from the form of the body and that the form of the body results from the agent. For, according to such an opinion, the accidents resulting from the body which comes into being through the agent do not proceed from the agent directly but through the mediation of the form. This is a conception permissible to the doctrines of the philosophers, but not to those of the theologians. However, I believe that the Mu'tazilites do that there are things which do not directly proceed from the agent. We have already explained how the Monad is the cause of the order, and of the existence of all things which support this order, and there is no sense in repeating ourselves.

Ghazali says:

The third way is that in the highest heavens there are marked out two points, the poles, which are immovable and do not leave their position, whereas the parts of the equator change their position. Now either all the parts of the highest sphere are similar (and then there will not be a special determination of two points amongst all the points to be poles), or the parts of the sphere are different and some have a special character which others have not. What, then, is the principle of these differences? For the body of the heavens proceeds from only one and the same simple entity and the simple can cause only that which is simple of shape, namely the sphere, and that which is homogeneous, that is, has no special distinguishable character. And out of this there is no issue.

I say:

'Simple' has two meanings: first, simplicity can be attributed to that which is not composed of many part, although it is composed of form and matter, and in this way the four elements are called simple; secondly, it can be attributed to that which is not composed of form and matter capable of changing its form, namely to the heavenly bodies; further, simplicity can be attributed to the agglomerate which has the same definition for its whole and its part, even when it is composed of the four elements. The simple character which is attributed to the heavenly bodies can very well possess parts which are differentiated by nature, as are the right and left sides of the sphere and the poles; for the globe, in so far as it is a globe, must have definite poles and a definite centre through which globes differ individually, and it does not follow from the fact that the globe has definite sides that it is not simple, for it is simple in so far as it is not composed of form and matter in which there is potency, and it is non-homogeneous in so far as the part which receives the place of the poles cannot be any part of the globe, but is a part determined by nature in each globe individually. If this were not so, globes could not have centres by nature through which they were differentiated; thus they are heterogeneous-in this special meaning of the word 'heterogeneous'-but this does not imply that they are composed of bodies different by nature, nor that their agent is composed of many potencies, for every globe is one. Nor do the philosophers regard it as true that every point of whatever globe can be a centre and that only the agent specifies the points, for this is only true in artificial things, not in natural globes. And from the assumption that every point of the globe can be a centre, and that it is the agent which specifies the points, it does not follow that the agent is a manifold unless one assumes that there is in the empirical world nothing that can proceed from a single agent; for in the empirical world things are composed of the ten categories and therefore anything whatever in the world would need ten agents. But all this, to which the view in question leads, which is very much like babbling in metaphysics, is stupid and senseless talk. The artificial product in the empirical world is produced, indeed, by only one agent, even if it possesses the ten categories. How untrue is this proposition that the one can produce only one, if it is understood in the way Avicenna and Farabi understand it, and Ghazali himself in his Niche for Lights, where he accepts their theory of the First Principle.'

Ghazali says:

One might say: 'Perhaps there are in the principle different kinds of plurality which do not result from its being a principle, only three or four are manifest to us, and the rest we do not perceive, but our incapacity for observation does not shake our belief that the principle of plurality is plurality and that from the one no manifold can proceed.'

I say:

If the philosophers made such a statement, they would have to believe that there is in the first effect
an infinite plurality, and one would necessarily have to ask them whence plurality comes in the first effect. And since they say that from the one no manifold proceeds, they would have to concede that the manifold cannot proceed from the One, but their statement that from the one only one proceeds contradicts their statement that what proceeds from the First Monad possesses plurality, for from the One one must proceed. Of course they can say that each term in the plurality of the first effect is a first term, but then there must be a plurality of first terms. It is most astonishing how this could remain hidden from Farabi and Avicenna, for they were the first who made these silly statements, and many followed them and attributed these theories to the philosophers. For when Farabi, Avicenna, and their school say that the plurality in the second principle arises through its self-knowledge and its knowing another, it follows for them that its essence has two natures or two forms, and it would be interesting to know which form proceeds from the First Principle and which does not. And there is a similar difficulty in their statement that the second principle is possible by itself, but necessary by another, for its possible nature must necessarily be different from its necessary nature, which it acquires from the necessary being. But the possible nature cannot become necessary, unless the nature of the possible can become necessary. Therefore there is in necessary natures no possibility at all, be it a possibility necessary by itself or a possibility necessary by another. All these are senseless statements and assertions, weaker than those of the theologians, extraneous to philosophy, and not congruous with its principles, and none of these affirmations reaches the level of rhetorical persuasion, to say nothing of dialectic persuasion.

And therefore what Ghazali says in different passages of his books is true, that the metaphysics of Farabi and Avicenna are conjectural.

Ghazali says:

We answer: If you regard this as possible, say then that all existing things in their multiplicity (and indeed their number reaches thousands) derive from the first effect and one need not limit this to the body of the extreme sphere and its soul, but all souls, heavenly and human, and all earthly and heavenly bodies can proceed from it, with the many diversities, belonging to them, which nobody has ever seen. But then the first effect will suffice.

I say:

This conclusion is true, especially when they imagine that the first act proceeding from the First Principle is the unity through which the first effect becomes a unique existent, notwithstanding the plurality in it. And indeed, if they allow an undetermined plurality in the first effect, it must be less or more than the number of existents, or equal to it; if less, they must introduce a third principle unless there is a thing without cause, if equal or more, the plurality assumed in it will be superfluous.

Ghazali says:

And then it follows that the First Cause by itself will suffice too. For if one regards it as possible that a plurality should arise inevitably, although without a cause, and although there is no necessity for it in the existence of the first effect, this will be permissible also with reference to the First Cause, and the existence of all things will be without a cause, although it is said that they follow inevitably and their number is not known. And if their existence without a cause can be imagined with reference to the First Cause, it can also be imagined with reference to the second cause; indeed, there is no sense in speaking of a reference to the first or to the second cause, since there is no distinction between them in time and place and neither the first nor the second cause can be characterized by its relation to things which do not differ from them in time and place and can exist without a cause.

I say:

He says that if a plurality in the first effect is permissible without a cause, because out of the First Cause there does not follow a plurality, one may also suppose a plurality within the First Cause, and there is no need to assume a second cause and a first effect. And if the existence of something without cause within the First Cause is impossible, then it is also impossible within the second cause; indeed, our expression ‘second cause’ has no sense, since in fact they are one and the same thing, and the one is not different from the other either in time or in space, and if it is permissible that something should exist without a cause, neither the First Cause nor the second can be specially distinguished by this; it suffices that it refers to one of
them and therefore it is not necessary to refer it to the second cause.

Ghazali says by way of an answer in the name of the philosophers:

It might be said: ‘The entities have become so many that they exceed thousands, but it seems absurd that a plurality of that extent exists in the first effect and for this reason we have multiplied the intermediates.’

Then he says in refutation of this:

We answer, however: To say ‘it seems absurd’ is pure conjecture, and such a judgement should not be applied to intelligibles. But if one says that it is impossible, we ask: ‘Why is it impossible, what will refute it, and where is the criterion?’ For, once we exceed the one and believe that one, two, or three entities can arise in the first effect without a cause, what makes it impossible that there should be four, five, indeed, a thousand and many thousands, and who could fix the limit? No, if unity is once exceeded, nothing can be rejected. This proof again is decisive.

I say:

If, however, Avicenna and these other philosophers had answered that the first effect possesses plurality, and that necessarily any plurality becomes one through a unity which requires that plurality should depend on unity, and that this unity through which plurality becomes one is a simple entity which proceeds from an individual simple Monad, then they would have saved themselves from these objections of Ghazali, and disengaged themselves from these false theories. But since Ghazali secured his point by ascribing a false assumption to the philosophers, and did not find anyone to give him a correct answer, he made merry and multiplied the impossibilities which can be deduced from their theory, for anyone who lets his horse canter in an empty space can make merry. But if he had known that he did not thereby refute the philosophers, he would not have been so delighted about it. The fundamental mistake of Avicenna and Farabi was that they made the statement that from the one only one can proceed, and then assumed a plurality in the one which proceeds. Therefore they were forced to regard this plurality as uncaused. And their assumption that this plurality was a definite plurality; which demanded the introduction of a third and fourth principle was a supposition not enforced by any proof. And generally, this assumption is not a legitimate assumption for a first and second principle, for they might be asked, ‘Why has only the second principle and not the first this special character of possessing a plurality?’ All this is foolish and senseless talk. The fact is that Avicenna and Farabi did not know how the Monad was a cause in the system of Aristotle and the Peripatetics.

Aristotle, in the twelfth book of his *Metaphysics,* expresses pride in his solution, and says that none of his predecessors could say anything about this problem. In the sense in which we have expounded the Aristotelian doctrine, this statement that out of the one only one can proceed is true, and the statement that out of the one a plurality proceeds is equally true.

Ghazali says:

Further, we affirm that the statement that out of the one only one can proceed is false in respect of the second effect, for out of it there emanates the sphere of the fixed stars, in which there are a thousand and twenty-odd stars, different in magnitude, shape, position, colour, and influence, be it of ill omen or auspicious, some in the shape of a ram, a bull, or a lion, others in the shape of a man; they influence one and the same place of the sublunary world differently in conferment of cold and warmth, fortune and misfortune, and their own measures are variable. On account of their differences it cannot be said that they are all of one kind; for if this could be said, it might also be said that all the bodies of the world were of one and the same kind of corporeal nature, and that one cause sufficed for them all. But just as the differences in qualities, substances, and natures of the bodies of the sublunary world show that they themselves are different, in the same way the stars, no doubt, are shown to differ, and each of them will need a cause for its form, a cause for its matter, a cause for the special function in its nature, to bring warmth or cold or happiness or calamity, a cause for its being in the definite place it occupies, then again a cause for its special tendency to group itself with others in the shapes of different animals. And if this plurality can be imagined to be known in the second intellect, it can also be imagined in the first intellect; and then this first intellect will suffice.

I say:

http://www.muslimphilosophy.com/ir/tt/tt-all.htm

4/14/2009
He had already exhausted this difficulty which is of a type he uses abundantly in this book, and if the answer we have given in defence of the philosophers is valid, none of these impossibilities need follow. But if by this expression one understands that, from the simple numerically one, only one simple one—not something numerically one in one way, but plural in another—can proceed, and that its unity is the cause of the existence of plurality, then one can never escape from these doubts. And again, things only become many, according to the philosophers, through substantial differences, and differences through accidents—be they quantitative, qualitative, or in whichever of the nine categories of the accident—do not cause, according to them, differentiations in the substance,’ and the heavenly bodies, as we said, are not composed of matter and form and are not specifically different, since they have, according to the philosophers, no common genus (for, if so, they would be composite, not simple). But we have treated of this already, and there is no sense in repeating ourselves.

Ghazali says:

The fifth objection is to say: If we concede these inept assumptions and these erroneous judgements, how is it then that they are not ashamed to say that from the fact that the first effect is of a possible existence, there results the existence of the highest sphere, and that from its knowledge of itself there follows the existence of the soul of the sphere and from its knowledge of the First Principle there follows the existence of an intellect? What is the difference between this and the statement that the existence of an unknown man is necessary, and that he is of a possible existence and knows himself and his Creator and then that from the fact that he is of a possible existence there follows the existence of a sphere? But it will be objected: What is the relation between his having a possible existence and the existence of a sphere following from him? And the same holds for the fact that from his knowing himself and his Creator there follow two other entities. But it would be ridiculous to say such a thing about a man or any other existent whatever, for the possibility of existence is a concept which does not change through the changing of the possible object, be it a man or an angel or a sphere. I do not know how any madman could content himself with any of these assertions, let alone the learned who split hairs in their discussions about intelligibles.

I say:

These are all theories of Avicenna and his followers, which are not true and are not built on the foundations of the philosophers; still they are not so inept as this man says they are, nor does he represent them in a true light. For the man whom he supposed to be of a possible existence through himself and necessary through another, knowing himself and his agent, is only a true representation of the second cause, when it is assumed in addition that through his essence and through his knowledge he is the agent of the existents, in the way this is assumed by Avicenna and his school of the second principle, and in the way all philosophers must admit it of the First Principle, God, glory be to Him. If this is admitted, it follows that from this man two things proceed: one in so far as he knows himself, the other, in so far as he knows his Creator, for he is supposed to act only because of his knowledge, and it is not absurd, if he is supposed to act because of his essence, to say that what proceeds from him, in so far as he has a possible existence, is different from what proceeds from him in so far as he has a necessary existence, since both these attributes exist in his nature. This theory, therefore, is not so ignominious as this man tries to represent it to be through this comparison, in order to cast odium on the theories of the philosophers and to make them despicable in the eyes of students.”

There is no difference between Ghazali’s comparison and a person who said: If you assume a being living through life, willing through will, knowing through knowledge, hearing, seeing, and speaking through audition, sight, and speech, and the whole world proceeds from him, it is possible that from man, living, knowing, hearing, seeing, speaking, the whole world proceeds, for if these attributes by themselves determine the existence of the world, it cannot make any difference in the effect through whichever being possessing these attributes they produce it. If this man Ghazali sought to speak the truth in this and erred, he might be forgiven; if, however, he understood how to deceive in these things and tried that, and if there were no necessity for him to do so, there is no excuse for him. And if he only wanted to show that he possessed no proof by which he could provide an answer to the question whence plurality proceeds, as might be inferred from what he says below, he speaks the
truth, for Ghazali had not reached the degree of knowledge necessary for comprehending this problem, as will be seen from what he says later; and the reason is that he studied only the books of Avicenna, and through this the deficiency in his knowledge arose.

Ghazali says:

But if one should say to us: ‘Certainly, you have refuted their theory, but what do you say yourself? Do you affirm that from one thing two different things can in any way proceed? In that case you offend reason. Or will you say that in the First Principle there is plurality? In that case you abandon the doctrine of God’s unity. Or will you say that there is no plurality in the world? In that case you contradict the evidence of the senses. Or will you say that plurality occurs through intermediates? In that case you are forced to acknowledge the theory of your opponents. We answer: ‘We have not made a deep inquiry in this book; our aim which we have attained was only to disturb the claims of our opponents. To this we may add that the claim that the thesis that two proceed from one is an affront to reason, and the claim that the attribution of eternal attributes to the First Principle contradicts the doctrine of God’s unity—both these claims, we say, are vain and possess no proof. The impossibility that two should proceed from one is not known in the way the impossibility of one single person’s being in two places is known in short, it is known neither by intuitive necessity nor by deduction. What is the objection against saying: ‘The First Principle is provided with knowledge, power, will; He acts as He wants, He judges as He wants, He creates the dissimilar and the similar as He wants and in the way He wants?’ The impossibility of this is known neither by immediate necessity nor by deduction. But the prophets have brought us this truth, justifying it through their miracles, and we must accept it. To inquire, however, how God’s act proceeds from Him through His Will is vain and an illusory pursuit. Those who have sought to represent and understand this have arrived as a result of their inquiry at a first effect from which as a possible existent there proceeds a sphere, and from which, so far as it knows itself, there proceeds the soul of the sphere. But this is nonsense and is by no means an appropriate explanation. Let us therefore accept the principles of these things from the prophets, and let us believe in this, since the intellect does not regard it as impossible. And let us abandon the inquiry about quality, quantity, and quiddity,’ for the human powers do not suffice for this. And therefore the master of the Divine Law has said: Think about God’s creation, but do not think about God’s essence.

I say:

His statement is true, that we have to refer to the Law of God everything which the human mind is unable to grasp. For the knowledge which results from revelation comes only as a perfection of the sciences of the intellect; that is, any knowledge which the weakness of the human mind is unable to grasp is bestowed upon man by God through revelation. This inability to comprehend things the knowledge of which is, however, necessary in the life and existence of man, is either absolute—i.e. it is not in the nature of the intellect, in so far as it is intellect, to comprehend such a thing—or it is not in the nature of a certain class of men, and this kind of weakness is either a fundamental character of his disposition or something accidental through a lack of education. Revelation is a mercy bestowed on all these classes of men.

And as to Ghazali’s words:

Our aim—which we have attained—was only to disturb our opponents; this aim is not a proper one for him and is censurable in a learned man, for the intention of the learned, in so far as they are learned, must be to seek the truth, not to sow doubts and perplex minds.

And as to his words:

the impossibility that two should proceed from one is not known in the way the impossibility a single person’s being in two places is known; although these two propositions are not of the same degree of assent, still the proposition that from the simple unit there proceeds only one single unit keeps its evidence inside the empirical world. Propositions which are evident differ in their degree of evidence, as has been shown in the Posterior Analytics, and the reason for this is that when evident
propositions are supported by imagination they receive a stronger degree of assent, and unsupported by imagination their assent is weakened; but only the masses rely on imagination, and he who is well trained in intellectual thought and renounces imagination accepts both propositions with the same degree of assent.

The strongest degree of evidence pertains to this proposition when a man makes an induction from transitory existents and sees that they only change their names and definitions through their acts and that, if any existent whatever could arise from any act and any agent whatever, the essences and definitions would become mixed and knowledge would be annihilated. The soul, for instance, distinguishes itself from the inorganic only through its special acts which proceed from it, and inorganic things are only distinguished from one another through the acts that are proper to them; and the same applies to souls. And if many acts were to proceed from a single essence, an act without an agent would be possible, for an existent comes to be through an existent, not through a non-existent, and therefore the non-existent cannot come to be by itself; and if it is true that the mover of the privation and the transposer of its potency into act transposes it only through the actuality it possesses itself, of necessity the actuality it possesses must be of the same kind as the act it transposes. If any effect whatever could proceed from any agent whatever, it would not be impossible that the effects should be actualized by themselves without an agent. And if many kinds of potency could be actualized through one and the same agent, this agent would itself have to possess these kinds or related kinds, for if it possessed only one of these kinds, all the other kinds would have to be actualized by themselves without a cause. It is not permissible to say: The only condition for the agent is that it exists as acting with an absolute action, not with a specified kind of action; for, in that case, any existent whatever would be able to perform any act whatever and what exists would be mixed;’ besides, the absolute, that is the universal, existent stands nearer to non-existence than the real individual existent. So those who denied the theory of universals denied the belief in a universal existent and in a universal becoming, whereas the champions of this theory regarded them as something midway between being and non-being; but if this were the case, it would follow that the universals could be a cause of existents. The proposition that from the one only one act can proceed is more evident for the empirical than for the divine world. For knowledge multiplies through the multiplying of the objects of thought in the world, since the intellect knows these objects in the way that they exist in the world, and they are the cause of its knowledge. It is not possible for many objects of thought to be known through one act of thought, nor can one act of thought produce many effects in the empirical world, e.g. the knowledge of the artisan which produces, for example, a cupboard is different from the knowledge which produces a chair. But eternal wisdom and the eternal agent differ in this matter from temporal knowledge and the temporal agent.

If I were asked ‘what is your own point of view in this question? You have denied Avicenna’s theory of the cause of plurality, but what do you say yourself? For it has been pointed out that the different schools of philosophy have three different answers to this question; that the plurality comes only through matter; that the plurality comes only through instruments; that the plurality comes through mediators. And it is said of the Peripatetics that they accept the theory which makes mediation the cause of plurality’–I cannot give in this book an answer to this question supported by a demonstrative proof. We find, however, neither in Aristotle nor in any of the known Peripatetics this theory which is ascribed to them, with the exception of Porphyry, the Tyrian, the author of the Introduction to Logic, and he is not among the most subtle of philosophers. My opinion is that according to the principles of the Peripatetics the cause of plurality is a combination of three factors, the intermediates, the dispositions, and the instruments; and we have already explained how all these depend on the Monad and refer to it, for each of them exists through an absolute unity which is the cause of plurality. For it seems that the cause of the plurality of the separate intellects is the difference in their natures, by which they receive the knowledge they gain of the First Principle and which acquire from the First Principle a unity which by itself is one single act, but which becomes many through the plurality of the recipients, just as there are many deputies under the power of a king and many arts under one art. This we shall examine in another place, and if some part of it becomes clear it will suffice; otherwise we must take refuge in revelation. In so far as the differences depend on
differences between the four causes, the question is clear. For the differentiation of the spheres arises from the differences of their movers, of their forms, of their matter, supposing they have matter, and of their acts which serve a special end in the world, even if the philosophers did not believe that these spheres exist for the sake of these acts. As to the differences which arise primarily in the sublunar world in the elements, as for instance the differences between fire and earth, and in short the opposites, they are based on the differentiation of matter and on their varying distances from their movers, which are the heavenly bodies. As to the difference between the two supreme movements, one of which is the agent of generation and the other the agent of corruption, they depend on the differentiation of the heavenly bodies and their motions, as is proved in the book On Generation and Corruption. For the difference which arises from the heavenly bodies resembles the difference which arises from the difference in the instruments. To sum up: the factors for the origination of plurality from the one Agent are three, according to Aristotle, and he refers to the One in the sense mentioned above, namely, that the One is the cause of the plurality. In the sublunar world the differences arise from the four causes, that is to say, the difference of the agents, the matter, the instruments, and the intermediaries which transmit the acts of the First Agent without its direct interference, and those intermediaries are very similar to the instruments. And an example of the differentiation which arises through the difference of the recipients, and out of the fact that certain differentiated things cause others, is colour. For the colour which arises in the air differs from the colour in the body, and the colour in the faculty of sight, i.e. in the eye, from the colour in the air, and the colour in the common internal sense from the colour in the eye, and the colour in the imagination from the colour in the common internal sense, and the colour in the memorative and retentive faculty from the colour in the imagination; and all this has been explained in the book of psychology.

THE FOURTH DISCUSSION
SHOWING THAT THEY ARE UNABLE TO PROVE THE EXISTENCE OF A CREATOR OF THE WORLD

Ghazali says:
We say: Mankind is divided into two categories; one, the men of truth who have acknowledged that the world has become and know by necessity that what has become does not become by itself but needs a creator, and the reasonableness of their view lies in their affirmation of a creator; the other, the materialists, believe the world, in the state in which it exists, to be eternal and do not attribute a creator to it, and their doctrine is intelligible, although their proof shows its inanity. But as to the philosophers, they believe the world to be eternal and still attribute a creator to it. This theory is self-contradictory and needs no refutation.

I say:
The theory of the philosophers is, because of the factual evidence, more intelligible than both the other theories together. There are two kinds of agent: (1) the agent to which the object which proceeds from it is only attached during the process of its becoming; once this process is finished, the object is not any more in need of it—for instance, the coming into existence of a house through the builder; (2) the agent from which nothing proceeds but an act which has no other existence than its dependence on it. The distinctive mark of this act is that it is convertible with the existence of its object, i.e. when the act does not exist the object does not exist, and when the act exists the object exists—they are inseparable. This kind of agent is superior to the former and is more truly an agent, for this agent brings its object to being and conserves it, whereas the other agent only brings its objects to being, but requires another agent for its further conservation. The mover is such a superior agent in relation to the moved and to the things whose existence consists only in their movement. The philosophers, believing that movement is the act of a mover and that the existence of the world is only perfected through motion, say that the agent of motion is the agent of the world, and if the agent refrained for only one moment from its action, the world would be annihilated. They use the following syllogism: The world is an act, or a thing whose existence is consequent upon this act. Each act by its existence implies the existence of an agent. Therefore the world has an agent existing by reason of its existence.
The man who regards it as necessary that the act which proceeds from the agent of the world should have begun in time says: The world is temporal through an eternal agent. But the man for whom the act of the Eternal is eternal says: The world has come into being, from an eternal agent having an eternal act, i.e. an act without beginning or end; which does, however, not mean that the world is eternal by itself, as people who call the world eternal imagine it to be.

Ghazali says, on behalf of the philosophers:

The philosophers might answer: When we affirm that the world has a creator, we do not mean thereby a voluntary agent who acts after not having acted, as we observe in the various kinds of agents, like tailors, weavers, and builders, but we mean the cause of the world, and we call it the First Principle, understanding by this that there is no cause for its existence, but that it is a cause of the existence of other things; and if we call this principle the Creator, it is in this sense. It is easy to establish by a strict proof an existent for the existence of which there is no cause. For we say that the world and its existents either have a cause or have not. If it has a cause, this cause itself either has or has not a cause, and the same can be said about the latter cause, and either we go on ad infinitum in this way, and this is absurd, or we arrive at a last term, and this end is the First Cause, which has no cause for its existence and which we call First Principle. And if the world existed by itself without cause, then it would be clear what the First Principle is, for we only mean by it an existent without a cause and which is necessarily eternal. However, it is not possible that the First Principle should be the heavens, for there are many of these and the proof of unity contradicts this, and its impossibility is shown on examination of the attribute of the principle. Nor can it be said that one single heaven, or one single body, the sun or any other body, can be the First Principle; for all these are bodies, and body is composed of matter and form, and the First Principle cannot be composite, as is clear on a second examination. Our intention is to show that an existent which has no cause is eternal by necessity and by universal consent, and only about its qualities is there a divergence of opinion. And this is what we mean by a first principle.

I say:

This argument carries a certain conviction, but still it is not true. For the term ‘cause’ is attributed equivocally to the four causes: agent, form, matter, and end. Therefore if this were the answer of the philosophers, it would be defective. For if they were asked which cause they mean by their statement that the world has a first cause, and if they answered, ‘That agent whose act is uncreated and everlasting, and whose object is identical with its act’, their answer would be true according to their doctrine; for against this conception, in the way we expounded it, there is no objection. But if they answered ‘The formal cause’, the objection would be raised whether they supposed the form of the world to subsist by itself in the world, and if they answered, ‘We mean a form separate from matter’, their statement would be in harmony with their theory; but if they answered, ‘We mean a form in matter’, this would imply that the First Principle was not something incorporeal; and this does not accord with philosophical doctrine. Further, if they said, ‘It is a cause which acts for an end’, this again would agree with the philosophical doctrine. As you see, this statement is capable of many interpretations, and how can it be represented there as an answer of the philosophers?

And as to Ghazali’s words:

We call it the First Principle, understanding by this that there is no cause for its existence, but that it is a cause for the existence of other things.

This again is a defective statement, for this might be said also of the first sphere, or of heaven in its entirety, or generally of any kind of existents which could be supposed to exist without a cause; and between this and the materialistic theory there is no difference.

And as to Ghazali’s words:

It is easy to establish by a strict proof an existent for the existence of which there is no cause.

This again is a defective statement, for the causes must be specified, and it must be shown that each kind has an initial term without cause—that is, that the agents lead upwards to a first agent, the formal causes to a first form, the material causes to a first matter, and the final causes to a first end. And then it must still be shown that these four ultimate causes lead to a first cause. This is not clear
from the statement as he expresses it here.

And in the same way the statement in which he brings a proof for the existence of a first cause is defective, i.e. his statement:

For we say that the world and its existents either have a cause or have not....

For the term 'cause' is used in an equivocal way. And similarly the infinite regress of causes is according to philosophical doctrine in one way impossible, in another way necessary; impossible when this regress is essential and in a straight line and the prior cause is a condition of the existence of the posterior, not impossible when this regress is accidental and circular, when the prior is not a condition for the posterior and when there exists an essential first cause—for instance, the origin of rain from a cloud, the origin of a cloud from vapour, the origin of vapour from rain. And this is according to the philosophers an eternal circular process, which of necessity, however, presupposes a first cause. And similarly the coming into existence of one man from another is an eternal process, for in such cases the existence of the prior is not a condition for the existence of the posterior; indeed, the destruction of some of them is often a necessary condition. This kind of cause leads upwards to an eternal first cause which acts in each individual member of the series of causes at the moment of the becoming of its final effect; for instance, when Socrates engenders Plato, the ultimate mover, according to the philosophers, is the highest sphere, or the soul, or the intellect, or all together, or God the Creator. And therefore Aristotle says that a man and the sun together engender a man, and it is clear that the sun leads upwards to its mover and its mover to the First Principle. Therefore the past man is not a condition for the existence of the future man. Similarly, when an artisan produces successively a series of products of craftsmanship with different instruments, and produces these instruments through instruments and the latter again through other instruments, the becoming of these instruments one from another is something accidental, and none of these instruments is a condition for the existence of the product of craftsmanship except the firsts instrument which is in immediate contact with the work produced. Now the father is necessary for the coming into existence of the son in the same way as the instrument which comes into immediate contact with the product of craftsmanship is necessary for its coming into existence. And the instrument with which this instrument is produced will be necessary for the production of this instrument, but will not be necessary for the production of the product of craftsmanship unless accidentally. Therefore sometimes, when the posterior instrument is produced from the matter of the anterior, the destruction of the anterior is a condition for the existence of the posterior, for instance, when a man comes into being from a man who has perished, through the latter becoming first a plant, then sperm or menstrual blood? And we have already discussed this problem. Those, however, who regard an infinite series of essential causes as possible are materialists, and he who concedes this does not understand the efficient cause. And about the efficient cause there is no divergence of opinion among philosophers.

And as to Ghazali's words:

And if the world existed by itself without cause, then it would be clear what the First Principle is.

He means that the materialists as well as others acknowledge a first cause which has no cause, and their difference of opinion concerns only this principle, for the materialists say that it is the highest sphere and the others that it is a principle beyond the sphere and that the sphere is an effect; but these others are divided into two parties, those who say that the sphere is an act that has a beginning and those who say that it is an eternal act. And having declared that the acknowledgement of a first cause is common to the materialists as well as to others, Ghazali says:

However, it is not possible that the First Principle should be the heavens, for there are many of these and the proof of unity contradicts this;

Meaning that from the order of the universe it is evident that its directing principle is one, just as it appears from the order in an army that its leader is one, namely, the commander of the army. And all this is true.

And as to Ghazali's words:

Nor can it be said that one single heaven or one single body, the sun or any other body, can be the First Principle; for all these are bodies, and body is composed of matter and form, and the first body cannot be composite.

I say:

The statement that each body is composed of matter and form does not accord with the theory of
the philosophers (with the exception of Avicenna) about the heavenly body, unless one uses ‘matter’ here equivocally. For according to the philosophers everything composed of matter and form has a beginning, like the coming into existence of a house and a cupboard; and the heavens, according to them, have not come into existence in this sense, and so they called them eternal, because their existence is coeternal with the First Principle. For since according to them the cause of corruption is matter, that which is incorruptible could not possess matter, but must be a simple entity. If generation and corruption were not found in sublunary bodies, we should not draw the conclusion that they were composed of matter and form, for the fundamental principle is that body is a single essence not less in its existence than in perception, and if there were no corruption of sublunary bodies, we should judge that they were simple and that matter was body. But the fact that the body of the heavens does not suffer corruption shows that its matter is actual corporeality. And the soul which exists in this body does not exist in it because this body requires, as the bodies of animals do, the soul for its continuance, nor because it is necessary for the existence of this body to be animated, but only because the superior must of necessity exist in the condition of the superior and the animate is superior to the inanimate. According to the philosophers there is no change in the heavenly bodies, for they do not possess a potency in their substance. They therefore need not have matter in the way the generable bodies need this, but they are either, as Themistius affirms, forms, or possess matter in an equivocal sense of the word. And I say that either the matters of the heavenly bodies are identical with their souls, or these matters are essentially alive, not alive through a life bestowed on them.

Ghazali says:

To this there are two answers. The first is that it can be said: Since it follows from the tenets of your school that the bodies of the world are eternal, it must follow too that they have no cause, and your statement that on a second examination such a conclusion must be rejected will itself be rejected when we discuss God's unity and afterwards the denial of attributes to God.

I say:

Ghazali means that since they cannot prove the unity of the First Principle, and since they cannot prove either that the One cannot be body—for since they cannot deny the attributes, the First Principle must, according to them, be an essence endowed with attributes, and such an essence must be a body or a potency in a body—it follows that the First Principle which has no cause is the celestial bodies. And this conclusion is valid against those who might argue in the way he says the philosophers argue. The philosophers, however, do not argue thus, and do not say that they are unable to prove the unity and incorporeality of the First Principle. But this question will be discussed later.

Ghazali says:

The second answer, and it is the answer proper to this question, is to say: it is established as a possibility that these existents can have a cause, but perhaps for this cause there is another cause, and so on ad infinitum. And you have no right to assert that to admit an infinite series of causes is impossible, for we ask you, ‘Do you know this by immediate necessary intuition or through a middle term?’ Any claim to intuition is excluded, and any method of deductive proof is forbidden to you, since you admit celestial revolutions without an initial term; and if you permit a coming into existence for what is without ends it is not impossible that the series should consist of causal relations and have as a final term an effect which has no further effect, although in the other direction the series does not end in a cause which has no anterior cause, just as the past has a final term, namely the everchanging present, but no first term. If you protest that the past occurrences do not exist together at one moment or at certain moments, and that what does not exist cannot be described as finite or infinite, you are forced to admit this simultaneous existence for human souls in abstraction from their bodies; for they do not perish, according to you, and the number of souls in abstraction from their bodies is infinite, since the series of becoming from sperm a to man and from man to sperm a is infinite, and every man dies, but his soul remains and is numerically different from the soul of any man who dies before, simultaneously, or afterwards, although all these souls are one in species. Therefore at any moment there is an infinite number of souls in existence.

If you object that souls are not joined to each other, and that they have no order,
either by nature or by position, and that you regard only those infinite existents as
impossible which have order in space, like bodies which have a spatial order of higher
and lower, or have a natural order like cause and effect, and that this is not the case
with souls; we answer: 'This theory about position does not follow any more than its
contrary;' you cannot regard one of the two cases as impossible without involving the
other, for where is your proof for the distinction? And you cannot deny that this
infinite number of souls must have an order, as some are prior to others and the past
days and nights are infinite. If we suppose the birth of only one soul every day and
night, the sum of souls, born in sequence one after the other, amounts at the present
moment to infinity.

The utmost you can say about the cause is that its priority to the effect exists by
nature, in the way that its superiority to the effect is a matter of essence and not of
space. But if you do not regard an infinite sequence as impossible for real temporal
priority, it cannot be impossible for natural essential priority either. But what can the
philosophers mean when they deny the possibility of an infinite spatial superposition
of bodies, but affirm the possibility of an infinite temporal sequence? Is this theory not
really an inept theory without any foundation?

I say: As to Ghazali's words:

But perhaps for this cause there is another cause and so on ad infinitum . . . and
any method of deductive proof is forbidden to you, since you admit celestial
revolutions without an initial term: To this difficulty an answer was given above, when
we said that the philosophers do not allow an infinite causal series, because this would
lead to an effect without a cause, but assert that there is such a series accidentally from
an eternal cause-not, however, in a straight line, nor simultaneously, nor in infinite
matters, but only as a circular process.

What he says here about Avicenna, that he regarded an infinite number of souls as possible and
that infinity is only impossible in what has a position, is not true' and no philosopher has said it;
indeed, its impossibility is apparent from their general proof which we mentioned, and no conclusion
can be drawn against them from this assumption of an actual infinity of souls. Indeed, those who
believed that the souls are of a certain number through the number of bodies and that they are
individually immortal profess to avoid this assumption through the doctrine of the transmigration of
souls.

And as to Ghazali's words:

But what can the philosophers mean when they deny the possibility of an infinite
spatial superposition of bodies, but affirm the possibility of an infinite temporal
sequence?

I say:

The difference between these two cases is very clear to the philosophers, for from the assumption
of infinite bodies existing simultaneously there follows an infinite totality and an actual infinite, and
this is impossible. But time has no position, and from the existence of an infinite temporal series of
bodies no actual infinite follows.

Ghazali says on behalf of the philosophers:

The philosophers might say: The strict proof of the impossibility of an infinite
causal series is as follows: each single cause of a series is either possible in itself or
necessary; if it is necessary, it needs no cause, and if it is possible, then the whole
series needs a cause additional to its essence, a cause standing outside the series.

I say:

The first man to bring into philosophy the proof which Ghazali gives here as a philosophical one,
was Avicenna, who regarded this proof as superior to those given by the ancients, since he claimed it
to be based on the essence of the existent, whereas the older proofs are based on accidents consequent
on the First Principle! This proof Avicenna took from the theologians, who regarded the dichotomy of
existence into possible and necessary as self-evident, and assumed that the possible needs an agent
and that the world in its totality, as being possible, needs an agent of a necessary existence. This was
a theory of the Mu'tazilites before the Ash'arites, and it is excellent, and the only flaw in it is their
assumption that the world in its totality is possible, for this is not self-evident. Avicenna wanted to
give a general sense to this statement, and he gave to the 'possible' the meaning of 'what has a cause', as Ghazali relates. And even if this designation can be conceded, it does not effect the division which he had in view. For a primary division of existence into what has a cause and what has no cause is by no means self-evident. Further, what has a cause can be divided into what is possible and what is necessary. If we understand by 'possible' the truly possible we arrive at the necessary possibles and not at the necessary which has no cause; and if we understand by 'possible' that which has a cause and is also necessary, there only follows from this that what has a cause has a cause and we may assume that this cause has a cause and so ad infinitum. We do not therefore arrive at an existent without cause-for this is the meaning of the expression 'entity of a necessary existence'-unless by the possible which Avicenna assumes as the opposite of what has no cause we understand the truly possible, for in these possibles there cannot exist an infinite series of causes. But if by 'possible' is meant those necessary things which have a cause, it has not yet been proved that their infinite number is impossible, in the way it is evident of the truly possible existents, and it is not yet proved that there is a necessary existent which needs a cause, so that from this assumption one can arrive at a necessary entity existing without a cause. Indeed, one has to prove that what applies to the total causal series of possible entities applies also to the total causal series of necessary existents.

Ghazali says:

The terms 'possible' and 'necessary' are obscure, unless one understands by 'necessary' that which has no cause for its existence and by 'possible' that which has a cause for its existence; then, by applying the terms as defined to the statement, we say: Each member of a causal series is possible in this sense of 'possible', namely, that it has a cause additional to its essence, but the series as a whole is not possible in this sense of 'possible'. And if anything else is meant by 'possible', it is obscure. If it is objected that this makes the necessary existent consist of possible existents and this is impossible, we answer: By defining 'necessary' and 'possible' as we have done, you have all that is needed and we do not concede that it is impossible. To say that it is impossible would be like saying that it is impossible that what is eternal should be made up of what is temporal, for time according to you philosophers is eternal, but the individual circular movements are temporal and have initial terms, though collectively they have no initial term; therefore, that which has no initial term consists of entities having initial terms, and it is true of the single units that they have a beginning, but not true of them collectively. In the same way it can be said of each term of the causal series that it has a cause, but not of the series as a whole. And so not everything that is true of single units is true of their collectivity, for it is true of each single unit that it is one and a portion and a part, but not true of their collectivity; and any place on the earth which we choose is illuminated by the sun by day and is dark by night, and according to the philosophers each unit has begun, but not the whole. Through this it is proved that the man who admits temporal entities without a beginning, namely, the forms of the four elements, cannot at the same time deny an infinity of causes, and we conclude from this that because of this difficulty there is no way in which they can prove the First Principle, and their dichotomy is purely arbitrary.

I say:

The assumption of infinite possible causes implies the assumption of a possible without an agent, but the assumption of infinite necessary entities having causes implies only that what was assumed to have a cause has none, and this argument is true with the restriction that the impossibility of infinite entities which are of a possible nature does not involve the impossibility of infinite necessary entities. If one wanted to give a demonstrative form to the argument used by Avicenna one should say: Possible existents must of necessity have causes which precede them, and if these causes again are possible it follows that they have causes and that there is an infinite regress; and if there is an infinite regress there is no cause, and the possible will exist without a cause, and this is impossible. Therefore the series must end in a necessary cause, and in this case this necessary cause must be necessary through a cause or without a cause, and if through a cause, this cause must have a cause and so on infinitely; and if we have an infinite regress here, it follows that what was assumed to have a cause has no cause, and this is impossible. Therefore the series must end in a cause necessary without a cause, i.e. necessary by itself, and this necessarily is the necessary existent. And when these
distinctions are indicated, the proof becomes valid. But if this argument is given in the form in which Avicenna gives it, it is invalid for many reasons, one of which is that the term 'possible' used in it is an equivocal one and that in this argument the primary dichotomy of all existents into what is possible and what is not possible, i.e. this division comprising the existent qua existent, is not true.

And as to Ghazali's words in his refutation of the philosophers:

We say: Each member of a causal series is possible in this sense of 'possible', namely, that it has a cause additional to its essence, but the whole series is not possible in this sense of 'possible'.

I say:

Ghazali means that when the philosophers concede that they understand by 'possible existent' that which has a cause and by 'necessary existent' that which has no cause, it can be said to them 'According to your own principles the existence of an infinite causal series is not impossible, and the series in its totality will be a necessary existent,' for according to their own principles the philosophers admit that different judgements apply to the part and to the whole collectively. This statement is erroneous for many reasons, one of which is that the philosophers, as was mentioned before, do not allow an infinite series of essential causes, whether causes and effects of a possible or of a necessary nature, as we have shown. The objection which can be directed against Avicenna is that when you divide existence into possible and necessary and identify the possible existent with that which has a cause and the necessary existent with that which has none, you can no longer prove the impossibility of the existence of an infinite causal series, for from its infinite character it follows that it is to be classed with existents which have no cause and it must therefore be of the nature of the necessary existent, especially as, according to him and his school, eternity can consist of an infinite series of causes each of which is temporal. The fault in Avicenna's argument arises only from his division of the existent into that which has a cause and that which has none. If he had made his division in the way we have done, none of these objections could be directed against him. And Ghazali's statement that the ancients, since they admit an infinite number of circular movements, make the eternal consist of an infinite number of entities, is false. For the term 'eternal', when it is attributed both to this infinite series and to the one eternal being, is used equivocally.'

And as to the words of Ghazali:

If it is objected that this makes the necessary existent consist of possible existents, and this is impossible, we answer: By defining 'necessary' and 'possible' as we have done you have all that is needed, and we do not concede that it is impossible.

I say:

Ghazali means that the philosophers understand by 'necess: that which has no cause and by 'possible' that which has a cause, and that he, Ghazali, does not regard it as impossible that what has no cause should consist of an infinite number of causes, because, if he conceded that this was impossible, he would be denying the possibility of an infinity of causes, whereas he only wants to show that the philosophers' deduction of a necessary being is a petitio principii.'

Then Ghazali says:

To say that it is impossible would be like saying that it is impossible that what is eternal should be made up of what is temporal, for time, according to you philosophers, is eternal, but the individual circular movements are temporal and have initial terms; therefore that which has no initial term consists of entities having initial terms, and it is true of the single units that they have a beginning, but not true of them collectively. In the same way it can be said of each term of the causal series that it has a cause, but not of the series as a whole. And so not everything that is true of single units is true of their collectivity, for it is true of each single unit that it is one and a portion and a part, but not true of their collectivity.

I say:

Ghazali means that it is not impossible that what has no cause should consist of infinite effects in the way the eternal, according to the philosophers, consists of temporal entities, which are infinite in number. For time, according to the philosophers, is eternal, and consists of limited temporal parts, and likewise the movement of heaven is eternal according to the philosophers, and the circular movements of which it consists are infinite. And the answer is that the existence of an eternal consisting of temporal parts, in so far as they are infinite in number, is not a philosophical principle;
on the contrary they deny it most strongly, and only the materialists affirm it. For the sum must consist either of a finite number of transitory members or of an infinite number. If the former is the case, it is generally admitted that the members must also be generically transitory. For the latter case there are two theories. The materialists believe that the totality is of a possible nature and that the collectivity must be eternal and without a cause. The philosophers admit this infinity and believe that such genera, because they consist of possible transitory constituents, must necessarily have an external cause, lasting and eternal, from which they acquire their eternity. It is not true either, as Ghazali seems to imply, that the philosophers believe that the impossibility of an infinite series of causes depends on the impossibility that the eternal should consist of an infinity of constituents. They affirm that the eternity of these generically different movements must lead to one single movement, and that the reason why there exist genera which are transitory in their individuals, but eternal as a whole, is that there is an existent, eternal partly and totally, and this is the body of the heavens. The infinite movements are generically infinite only because of the one single continuous eternal movement of the body of the heavens. And only for the mind does the movement of heaven seem composed of many circular movements. And the movement of the body of the heavens acquires its eternity—even if its particular movements are transitory-through a mover which must always move and through a body which also must always be moved and cannot stop in its motion, as happens with things which are moved in the sublunary world.

About genera there are three theories, that of those who say that all genera are transitory, because the individuals in them are finite, and that of those who say that there are genera which are eternal and have no first or last term, because they appear by their nature to have infinite individuals; the latter are divided into two groups: those, namely the philosophers, who say that such genera can only be truly said to be everlasting, because of one and the same necessary cause, without which they would perish on innumerable occasions in infinite time; and those, namely the materialists, who believe that the existence of the individuals of these genera is sufficient to make them eternal. It is important to take note of these three theories, for the whole controversy about the eternity or non-eternity of the world, and whether the world has an agent or not, is based on these fundamental propositions. The theologians and those who believe in a temporal creation of the world are at one extreme, the materialists at the other, while the philosophers hold an intermediate position.

If all this is once established, you will see that the proposition that the man who allows the existence of an infinite series of causes cannot admit a first cause is false, and that on the contrary the opposite is evident, namely, that the man who does not acknowledge infinite causes cannot prove the existence of an eternal first cause, since it is the existence of infinite effects which demands the necessity of an eternal cause from which the infinite causes acquire their existence; for if not, the genera, all of whose individuals are temporal, would be necessarily finite. And in this and no other way can the eternal become the cause of temporal existents, and the existence of infinite temporal existents renders the existence of a single eternal first principle necessary, and there is no God but He.

Ghazali, answering this objection in the name of the philosophers, says:

The philosophers might say: The circular movements and the forms of the elements do not exist at the present moment; there actually exists only one single form of them, and what does not exist can be called neither finite nor infinite, unless one supposes them to exist in the imagination, and things which are only suppositions in the mind cannot be regarded as impossible, even if certain of these suppositions are supposed to be causes of other suppositions; for man assumes this only in his imagination, and the discussion refers only to things in reality, not to things in the mind. The only difficulty concerns the souls of the dead and, indeed, some philosophers have arrived at the theory that there is only one eternal soul before it is united with bodies, and that after its separation from the bodies it becomes one again, so that it has no numerical quantity and can certainly not be called infinite. Other philosophers have thought that the soul follows from the constitution of the body, that death is nothing but the annihilation of the soul, and that the soul cannot subsist by itself without the body. In that case souls have no existence except in respect of the living, and the living are beings limited in number, and their finitude is not denied, and those that have ceased to exist cannot be qualified at all, either by finitude or by infinity, except when they are supposed to exist in imagination.
Then Ghazali says:

We answer: This difficulty about the souls has come to us from Avicenna and Farabi and the most acknowledged philosophers, since they concluded that the soul was a substance subsistent by itself; and this is also the view taken by Aristotle and by the commentators on the ancient philosophers. And to those philosophers who turn aside from this doctrine we say: Can you imagine that at each moment something comes into being which will last for ever? A negative answer is impossible, and if they admit this possibility, we say: If you imagine that every day some new thing comes into being and continues to exist, then up to the present moment there will have been an infinite collection of existents and, even if the circular movement itself comes to an end, the lasting and endless existence of what has come into being during its revolution is not impossible. In this way this difficulty is firmly established, and it is quite irrelevant whether this survival concerns the soul of a man or a Jinni, the soul of a devil or an angel, or of any being whatever. And this is a necessary consequence of every philosophical theory which admits an infinity of circular movements.

I say:

The answer which lie gives in the name of the philosophers, that the past revolutions and the past forms of the elements which have come from each others are non-existent, and that the non-existent can be called neither finite nor infinite, is not a true one. And as to the difficulty he raises against them as to their theory about souls, no such theory is held by any philosophers, and the transference of one problem to another is a sophistical artifice.

THE FIFTH DISCUSSION

TO SHOW THEIR INCAPACITY TO PROVE GOD’S UNITY AND THE IMPOSSIBILITY OF TWO NECESSARY EXISTENTS BOTH WITHOUT A CAUSE

Ghazali says:

The philosophers have two proofs of this. The first is to say, ‘If there were two necessary existents, the species of necessary existence would be attributed to them both. ‘ But what is said to be a necessary existent must either be so through itself, and cannot be imagined to be so through another, or it must be so through a cause, and the essence of the necessary existent will be an effect; and its cause then determines its necessity of existence. ‘ ‘But’, say the philosophers, ‘we understand by “necessary existent” only an entity whose existence has no connexion with a cause. ‘ And the philosophers affirm that the species ‘man’ is asserted of Zaid and of Amr and that Zaid is not a man through himself-for in that case Amr would not be a man-but through a cause which makes both him and Amr a man; and the plurality of men arises from the plurality of matter in which humanity inheres, and its inherence in matter is an effect which does not lie in the essence of humanity. The same is the case with necessary existence in respect to the necessary existent: if it is through itself a necessary existent, it must possess this qualification exclusively, and if it exists because of a cause, it is an effect and cannot be a necessary existent. And from this it is clear that the necessary existent must needs be one.

To this Ghazali objects and says:

We say: Your statement that the species of necessary existence must belong to the necessary existent either through the necessary existent itself or through a cause is a self-contradictory disjunction, for we have already shown that the expression ‘necessary existence’ is obscure, unless we mean by it the denial of a cause, and so let us rather use the term which is really meant by it and say: To admit two existents without a cause, and without the one’s being a cause of the other, is not impossible.
And your statement that what has no cause has none, either because of its own
essence or through some cause, is a faulty disjunction, for one does not ask for the
cause of a thing which is said to have no cause and need no cause for its existence.
And what sense is there in the statement that what has no cause has no cause either
because of its own essence or through a cause? For to say ‘no cause’ is an absolute
negation, and an absolute non-entity has no cause, and cannot be said to exist either by
its own essence or not by its own essence. But if you mean by ‘necessary existence’ a
positive qualification of the necessary existent, besides its being an existent without a
cause for its existence, it is quite obscure what this meaning is. But the genuine
meaning of this word is the negation of a cause for its existence, and this is an absolute
negation about which it cannot be said that it is due to its essence or to a cause, such
that the intended proof might be based on the supposition of this disjunction. To regard
this as a proof is senseless and has no foundation whatever. On the contrary, we say
that the meaning of its necessity is that it has no cause for its existence and no cause
for its coming into existence, without there being any cause whatever for this; its being
without a cause is, again, not caused by its essence; no, the fact that there is no cause
for its existence and no cause for its being, has itself no cause whatsoever. This
disjunction cannot be applied even to positive qualities, not to speak of that which is
really equivalent to a negation. For suppose one were to say: ‘Black is a colour
because of its essence or through a cause, and if it is a colour because of its essence,
then red cannot be a colour, and then the species of colouredness can exist only
because of the essence of black; if, however, black is a colour because of a cause
which has made it a colour, then black can be thought of as being without a colour, i.
e. as not having been made a colour by a cause, for a determination added to an
essence through a cause can be represented in the imagination as absent, even if it
exists in reality. ‘ ‘But’, it will be objected, ‘this disjunction is false in itself, for one
cannot say of black that it is a colour because of its essence, meaning by this that it
cannot be through anything but its essence, and in the same way one cannot say that
this existent is necessary because of its essence, i.e. that it has no cause because of its
own essence, meaning by this that it cannot exist through anything but its essence. ‘

I say:
This method of proving the unity of God is peculiar to Avicenna, and is not found in any of the
ancient philosophers; its premisses are common-sense premisses, and the terms are used in a more or
less equivocal way. For this reason many objections can be urged against it. Still, when those terms
and the aim they intend are properly analysed, this statement comes near to being a proof.

That this primary disjunction is faulty, as Ghazali asserts, is not true. He says that the meaning of
‘necessary existent’ is ‘that which has no cause’, and that the statement ‘that what has no cause, has
no cause, either because of its own essence or through another cause’, and similarly the statement
‘that the necessary existent is a necessary existent, either because of its own essence or through
another cause’ are meaningless statements. But this is by no means the case. For the meaning of this
disjunction is only whether the necessary existent is such, because of a nature which characterizes it, in
so far as it is numerically one, ‘or because of a nature which it has in common with others—for
instance, when we say that Amr is a man because he is Amr, or because of a nature he has in common
with Khalid. If he is a man because he is Amr, then humanity does not exist in anyone else, and if he is
a man because of a general nature, then he is composed of two natures, a general one and a special
one and the compound is an effect; but the necessary existent has no cause, and therefore the
necessary existent is unique. And when Avicenna’s statement is given in this form it is true.
And Ghazali’s words:

and an absolute non-entity has no cause and it cannot be said to exist either by its
own essence or not by its own essence form a statement which is not true either. For
there are two kinds of negation, the negation of a particular quality, proper to
something (and this kind of negation must be understood in respect of the words ‘by its
own essence’ used in this statement), and the negation of a quality, not particular to
something (and this kind of negation must be understood here in respect of the term
‘cause’). ‘
Ghazali affirms that this disjunction is not even true of positive qualities and therefore certainly not of negative and he objects to thus disjunction by giving as ati example black acid colouredness. And lie means that now we say of black that it is a colour, either because of its essence or through a cause, neither alternative can be true, send both are false. For it black were a cause, because of its essence, red could not he a colour. just as if Amr were a man because of his essence, Khalid could not be cc man; on the other hand, if black were a colour through a cause, colour would have to be an addition to its essence, and an essence which receives an addition can be represented without this addition, and therefore this assumption would imply that black could be represented without colouredness, and this is absurd. But this argument, Ghazali is erroneous and sophistical, because of the equivocation in the terms ‘essence’ and ‘cause’. For if by ‘by its essence’ is understood the opposite of ‘by accident’, our statement that black is a colour because of its essence is true, and at the same time it is not impossible that other things, red for instance, should be colours. And if by ‘cause’, in the expression that black is a colour through a cause, is understood something additional to its essence, i. e. that it is a colour through a cause external to black, it does not follow that black can be represented without colouredness. For the genus is an addition to the specific quality and the species, and the species or the specific quality cannot be represented without the genus, and only an accidental additional quality-not the essential additional quality-can be represented without the genus. And therefore our statement that black is a colour either because of its essence or through a cause is a disjunction of which, indeed, one of the alternatives must be true, i. e. black must be a colour either by black itself or through an entity additional to black. And this is what Avicenna meant by his assertion that the necessary existent must be a necessary existent, either through its own special character or through an addition which is not peculiar to it; if through the former, there cannot be two existents which are both necessary existents; if through the latter, both existents must be composed of a universal and of a peculiar entity, and the compound is not a necessary existent through itself. And if this is true, the words of Ghazali : ‘What prevents us from representing two existents which should both be of a necessary existence?’ are absurd.

And if it is objected, ‘You have said that this statement comes near being a proof, but it seems to be a proper proof’, we answer: We said this only because this proof seems to imply that the difference between those two assumed necessary existents must lie either in their particularity, and then they participate in their specific quality, or in their species, and then they participate in their generic quality, and both these differences are found only in compounds, and the insufficiency of this proof lies in this, that it has been demonstrated that there are existents which are differentiated, although they are simple and differ neither in species nor individually, namely, the separate intellects. ‘ However, it appears from their nature that there must be in their existence a priority and posteriority of rank, for no other differentiation can be imagined in them. Avicenna’s proof about the necessary existent must be therefore completed in this way: If there were two necessary existents, the difference between them must consist either in a numerical difference, or in a specific difference, or in rank. In the first case they would agree in species; in the second case in genus, and in both cases the necessary existent would have to be composite. In the third case, however, the necessary existent will have to be one, and will be the cause of all the separate existents. And this is the truth, and the necessary existent is therefore one. For there is only this tripartite disjunction, two members of which are false, and therefore the third case, which necessitates the absolute uniqueness of the necessary existent, is the true one. ‘

Ghazali says:

The second proof of the philosophers is that they say: If we assumed two necessary existents, they would have to be similar in every way or different. If they were similar in every way, they could not be thought to be a plurality or a duality, since two blacks can have only a duality, when they are in two places, or in one place at different times, for black and movement can only exist in one place and be two at the same time, because they differ essentially. When the two essences, like the two blacks, do not differ and at the same time are simultaneous and in one place, they cannot be thought to be a plurality; if one could speak of two simultaneous blacks as being in the same place, any individual could be said to be two, although not the slightest difference could be perceived between the two. Since they cannot be absolutely similar, they must be different, but they cannot differ in time or in place, and they can therefore only
differ in essence. But two things which differ in something must either participate in something or not participate in anything. The latter is impossible, for it would mean that they would participate neither in existence, nor in the necessity of existence, nor in being subsistent in themselves and not inhering in a substratum. But if they agree in something and differ in something, that in which they agree must be different from that through which they differ; there will therefore be composition in them, and it will be possible to analyse them in thought. But there is no composition in the necessary existent, and just as it cannot be divided quantitatively, so it cannot be analysed by thought either, for its essence is not composed of elements which intellectual analysis could enumerate. The words ‘animal’ and ‘rational’, for instance, mean that which constitutes the essence of man, namely, animal and rational, and what is meant by the word ‘animal’ when one speaks of a man is different from what is meant by ‘rational’, and therefore man is composed of parts which are ordered in the definition by words which indicate these parts, and the term ‘man’ is applied to the whole of them. This composition, however, cannot be imagined in the necessary existent, while duality cannot be imagined except in this way.

The answer is that we concede that duality can only be imagined where there is a differentiation, and that in two things, similar in every way, no difference can be imagined. But your statement that this kind of composition is impossible in the First Principle is a mere presumption, and where is your proof of it?

Let us now treat this problem in detail. It belongs to their well-known theories that the First Principle can as little be analysed intellectually as divided quantitatively, and on this fundamental truth, according to the philosophers, the uniqueness of God must be based.

I say:

Ghazali does not know the mistake which is in this second proof, and he begins to discuss with the philosophers the question to which they give a negative answer, namely, if one may introduce a plurality into the definition of the necessary existent. He wants to consider this problem in detail, since the Ash’arites allow a plurality in God, regarding Him as an essence with attributes. The mistake in this second proof is that two different things can be essentially different and have nothing in common but their name, in the case where they have no common genus, either proximate or remote, for instance, the term ‘body’, attributed by the philosophers to both the body of the heavens and the transitory body, and the term ‘intellect’ attributed to the intellect of man and the separate intellects, and the term ‘existent’ attributed to transitory things and to eternal. Such terms must be regarded as equivocal rather than as univocal, and therefore it does not follow that things which are differentiated must be composite. And since Ghazali, in his answer to this proof of the philosophers, limits himself in the way he has indicated, he begins first by stating their theory of God’s unity and then tries to refute the philosophers.

Ghazali, expounding the philosophical theory, says:

For the philosophers assert that God’s unity can only be perfected by establishing the singleness of God’s essence in every way, and by the denial of any possible plurality in Him. Now plurality can belong to things in five ways.

First, to what can undergo division actually or in imagination, and therefore the single body is not absolutely one—it is one through the continuity which exists in it, which can suffer a decrease and can be quantitatively divided in imagination. This is impossible in the First Principle.

Secondly: a thing may be divided by thought, not quantitatively, into two different concepts, as for instance the division of body into matter and form, for although neither matter nor form can subsist separately, they are two different things in definition and in reality, and it is by their composition that a unity results, namely body. This also must be denied of God, for God cannot be a form or a matter in a body, or be the compound of both. There are two reasons why God cannot be their compound, first because this compound can be divided into quantitative parts, actually or in imagination, secondly, because this compound can be divided conceptually into form and matter, and God cannot be matter, because matter needs a form, and the
necessary existent is self-sufficient in every respect and its existence cannot be conjoined with the condition of something else besides it, and God cannot be form, because form needs matter.

Thirdly: the plurality through attributes implied in knowledge, power, and will; if these attributes had a necessary existence, the essence and these attributes would participate in necessary existence and the necessary existent must be a plurality, and its uniqueness would be denied.

Fourthly: the rational plurality which results from the composition of genus and species. For black is black and colour, and blackness is not colouredness for the intellect, but colouredness is a genus, and blackness a specific difference, and therefore black is composed of genus and species; and animality is for the mind something different from humanity, for man is a rational animal, animal is a genus and rational a specific difference, and man is composed of genus and species, and this is a kind of plurality, and the philosophers affirmed that this kind also must be denied of the First Principle.

Fifthly: the plurality which results from the duality of a quiddity and the existence of this quiddity; for man before his existence has a quiddity, and existence occurs to it and enters into relation with it, and in this way the triangle has a quiddity, namely, it is a figure surrounded by three sides, and existence is not a component of this quiddity, and therefore the intellect can perceive the quiddity of man and the quiddity of a triangle without knowing whether they exist in the external world or not. If existence were a component of the quiddity to which it is added, the fixation of this quiddity in the mind before its existence could not be imagined. Existence stands in a relation to quiddity, whether in a necessary inseparable relation, for instance, heaven, or in an accidental relation occurring after a thing's non-existence, like the quiddity of man in respect of Zaid or Amr and the quiddity of accidents and forms which occur. And the philosophers affirm that this kind of plurality also must be denied of the First Principle. They say that the First Principle has no quiddity to which existence is joined, but existence is necessary to it, as is quiddity to the other entities. Therefore necessary existence is at once a quiddity, a universal reality and a real nature, in the same way as a man, a tree, and heaven are quiddities. For if the necessary existent needed a quiddity for its existence, it would be consequent on this essence and would not constitute it, and the consequent is something secondary and an effect, so that the necessary existent would be an effect, and that would be in opposition to its being necessary.

I say:

These are the theories of the philosophers which Ghazali mentions on the subject of their denial of plurality in the Monad. Then he begins to show how they contradict themselves on this question. We must now first examine these statements which he ascribes to them, and explain the degree of consent they reach; we shall then investigate the contradictions of the philosophers which he mentions, and his methods of opposing them on this problem.

The first kind of division which, according to Ghazali, the philosophers deny of the First Principle, is the quantitative division, either in supposition or in reality. Everyone who believes that the First Principle is not a body, whether he believes that a body is composed of atoms or not, agrees about this. The proof of this is that the First Principle is not a body, and its discussion will follow.

The second kind is the qualitative division, like the division of body into matter and form, and this according to the doctrine of those, namely, the philosophers, who believe that body is composed of matter and form and this is not the place to discuss the truth of either of these theories. This division also is denied of the First Principle by everyone who believes that the First Principle is not body. As to the denial of the corporeality of the First Principle in so far as it is essentially a necessary existent, the discussion of this will follow later, when we give a complete account of the whole argument used in this matter. For as to Ghazali's words that the necessary existent does not need another, i. e. it does not consist of anything else, but that body consists of form and matter and neither of them are necessary existents, for form cannot dispense with matter and matter cannot dispense with form—there is here a problem; for according to the philosophers the body of the heavens is not composed of
matter and form, but is simple, and it has sometimes been thought that it is a necessary existent by its own essence; but this problem will be treated later, and I do not know of any philosopher who has believed that the body of the heavens is composed of matter and form, with the sole exception of Avicenna. We have already spoken on this question in another place, and shall discuss it still later on.

The third kind is the denial of the plurality of attributes in the necessary existent, for if these attributes were of a necessary existence, the necessary existent would be more than one, since the essence also is a necessary existent. And if the attributes were caused by the essence, they could not be necessary existents, and attributes of the necessary existent would not be necessary existents, otherwise the term ‘necessary existent’ would comprise the necessary existent and that which is not a necessary existent, and this is impossible and absurd. And this is a proof which comes very near to being an absolute truth, when it is conceded that the ‘necessary existent’ must indicate an immaterial existent, and in such existents, which subsist by themselves without being bodies, there cannot be imagined essential attributes of which their essence is constituted, not to speak of attributes which are additional to their essence, that is, the so-called accidents, for when accidents are imagined to be removed, the essence remains, which is not the case with the essential attributes. And therefore it is right to attribute essential attributes to their subject, since they constitute its identity, but it is not right to attribute non-essential attributes to it, except through derivative words, for we do not say of a man that he is knowledge, but we only say that he is an animal and that he is knowing; however, the existence of such attributes in what is incorporeal is impossible, since the nature of these attributes is extraneous to their subject, and for this reason they are called accidents and are distinct from what is attributed essentially to the subject, be it a subject in the soul or in the external world. If it is objected that the philosophers believe that there are such attributes in the soul, since they believe that the soul can perceive, will, and move, although at the same time they hold that the soul is incorporeal, we answer that they do not mean that these attributes are additional to the essence, but that they are essential attributes, and it is of the nature of essential attributes not to multiply the substratum which actually supports them; they are a plurality only in the sense that the thing defined becomes a plurality through the parts of the definitions, that is, they are only a subjective plurality in the mind according to the philosophers, not an actual plurality outside the soul. For instance, the definition of man is ‘rational animal’, but reason and life are not actually distinguishable from each other outside the soul in the way colour and shape are. And therefore he who concedes that matter is not a condition for the existence of the soul must concede that in the separate existences there is a real oneness existing outside the soul, although this oneness becomes a plurality through definition. This is the doctrine of the Christians concerning the three hypostases in the divine Nature. They do not believe that they are attributes additional to the essence, but according to them they are only a plurality in the definition—they are a potential, not an actual, plurality. Therefore they say that the three are one, i.e. one in act and three in potency. We shall enumerate later the reprehensible consequences and absurdities which arise from the doctrine that the First Principle possesses attributes additional to His essence.

The fourth kind of plurality is that which occurs to a thing because of its genus and specific difference; this plurality comes very near to that which belongs to a thing because of its matter and form, for there are only definitions for that which is composed of matter and form, and not for simple, non-compound things, and nobody need disagree about denying a plurality through definition to the First Principle.

The fifth kind of plurality is the plurality of essence and existence. Existence in the nature of things is a logical concept which affirms the conformity of a thing outside the soul with what is inside the soul. Its meaning is synonymous with the true, and it is this that is meant by the copula in categorical propositions. The term ‘existence’ is used in two senses; the first synonymous with the true, when we ask, for instance, if something exists or not, or whether a certain thing has such and such a quality or not. The second sense stands in relation to the existing things as their genus, in the way the existent is divided into the ten categories, and into substance and accident. When by existent is understood the true, there is no plurality outside the souls when by existent is understood what is understood by entity and thing, the term ‘existent’ is attributed essentially to God and analogically to all other things in the way warmth is attributed to fire and to all warm things? This is the theory of the philosophers.

But Ghazali based his discussion on the doctrine of Avicenna, and this is a false doctrine, for Avicenna believed that existence is something additional to the essence outside the soul and is like an
accident of the essence. And if existence were a condition for the being of the essence and a condition for the essence of the necessary existent, the necessary existent would be composed of the conditioning and the conditioned and it would be of a possible existence. Avicenna affirms also that what exists as an addition to its essence has a cause. Now, existence for Avicenna is an accident which supervenes on the essence, and to this Ghazali refers when he says:

For man before his existence has a quiddity and existence occurs to it and enters into relation with it, and in this way the triangle has a quiddity, namely, it is a figure surrounded by three sides, and existence is not a component of this quiddity, and therefore the intellect can perceive the quiddity of man and the quiddity of a triangle without knowing whether they exist in the exterior world or not.

This shows that the term ‘existence’ which he uses here is not the term which signifies the most universal genus of all entities, nor the term which indicates that a thing exists outside the soul. For the term ‘existence’ is used in two meanings, the former signifies the true and the latter the opposite of non-existence, and in this latter sense it is that which is divided into the ten categories and is like their genus. This essential sense which refers to the things which exist in the real world outside the soul is prior to the sense it has in the existents of second intention, ‘ and it is this sense which is predicated of the ten categories analogically, and it is in this sense that we say of the substance that it exists by itself and of the accident that it exists through its existing in the existent which subsists by itself. As to the existent which has the meaning of the ‘true’, all the categories participate in it in the same way, and the existent which has the meaning of the ‘true’ is something in the mind, namely that a thing is outside the soul in conformity with what it is inside the soul, and the knowledge of this is prior to the knowledge of its quiddity; that is, knowledge of the quiddity of a thing cannot be asked for, unless it is known that it exists. ‘ And as to those quiddities which precede in our minds the knowledge of their existence, they are not really quiddities, but only nominal definitions, and only when it is known that their meaning exists outside the soul does it become known that they are quiddities and definitions. And in this sense it is said in the book of the Categories that the intelligible universals of things become existent through their particulars, and that the particulars become intelligible through their universals. s And it is said in the De Anima that the faculty by which it is perceived that a thing is a definite particular and exists is another faculty than the faculty by which the quiddity of the definite particular is perceived, b and it is in this way that it is said that particulars exist in the external world and universals in the mind? And there is no difference in the meaning of the ‘true’, whether it concerns material existents or separate existents. The theory that existence is an addition to the quiddity and that the existent in its essence does not subsist by its-and this is the theory of Avicenna-is a most erroneous theory, for this would imply that the term ‘existence’ signified an accident outside the soul common to the ten categories. And then it can be asked about this accident when it is said to exist, if ‘exist’ is taken here in the meaning of the ‘true’ or whether it is meant that an accident exists in this accident, and so on ad infinitum, which is absurd, as we have shown elsewhere. ‘ I believe that it is this meaning of ‘existence’ which Ghazali tried to deny) of the First principle, and indeed in this sense it must be denied of all existents and a fortiori of the First Principle, since it is a false theory.

Having mentioned this sense of unity in the statements of the philosophers, Ghazali now proceeds to describe . the ways in which they contradict themselves in his opinion, and lie says:

Now notwithstanding all this, the philosophers affirm of God that He is the First and a principle, an existent, a substance, a monad, that He is eternal, everlasting, knowledge and knower and known, an agent and a creator, that He is endowed with will and power and life, that He is the lover and the beloved, the enjoyer and the enjoyed, that He is generous, and the absolute good, and they believe that all this is meant by the term ‘one’, and does not imply airy plurality. And this indeed is something very wonderful.

Now we must first state their theory clearly in order to understand it well, and then we shall occupy ourselves with its refutation, for it is an absurd undertaking to refute a theory before it is well understood. Now the central point for- the understanding of their doctrine is that they say that the essence of the Principle is one, and the plurality of terms arises only through bringing something in relation to it or through bringing it in relation to something, or through denying something of it; for the negation of something does not cause plurality in that of which it is denied, nor does the
establishment of relation produce a plurality. Therefore they do not deny the plurality of the negations and the relations, and it is thus their task to refer all the qualities mentioned to negation and relation.

They say that when God is said to be the First this means a relation to all the existents after Him. When He is said to be a principle, it signifies that the existence of everything else depends on Him and is caused by Him; it means therefore a relation to an effect. And when He is said to exist, it means that He is apprehended, and when He is said to be a substance it means that He is the being of which it is denied that it inheres in a substratum and this is a negation. When He is said to be eternal, it means that His non-existence in the past is denied; and when He is said to be everlasting, it means that His non-existence in the future is denied, and the terms ‘eternal’ and ‘everlasting’ are reduced to an existence not preceded nor followed by a non-existence. When He is said to be a necessary existent, it means that there is no cause for His existence and that He is the cause of everything else, and this is a combination of negation and relation: the denial of a cause for His existence is a negation, and making Him the cause of everything else is a relation.

When He is said to be intellect, this means that He is free from matter and everything free from matter is intellect, i.e. thinks its own substance, is self-conscious, and knows everything else, and the essence of God is such: He is free from matter and therefore-for these two expressions have the same meaning-He is an intellect. When He is said to be knowing, it means that His essence which is intellect has an object of thought, namely His essence, for He is self-conscious and knows His own self, and His essence is the known and the knower for all that is one, since He is the known in so far as He is a quiddity, abstract from matter, not hidden from His essence which is intellect in the sense that it is a quiddity abstract from matter, from which nothing is hidden; and because He thinks His own self, He is knowing, and because He is His own object of thought, He is an object known, and since He thinks through His own essence, not through something additional to His own essence, He is intellect, and it is not impossible that the knower and the thing known should be one, for the knower, when he knows that he knows, knows it because he is a knower, so that knower and known are in a way the same; although our intellect is in this respect different from the intellect of the First Principle, for the intellect of the First Principle is eternally in act, whereas our intellect is sometimes in potency, sometimes in act. And when He is said to be a creator, an agent and an originator and to have the other attributes of action, it means that His existence is eminent, from which the existence of the universe emanates in a necessary emanation, and that the existence of everything derives from Him and is consequent on His existence in the way that light is consequent on the sun and heat consequent on fire. But the relation of the world to God resembles the relation of light to the sun only in this, that both are effects, and not in any other way, for-the sun is not aware of the emanation of light from it, nor fire of the emanation of heat from it; for this is mere nature. But the First is conscious of Himself and is aware that His essence is the principle of everything else, and the emanation of everything which emanates from Him is known to Him, and He is not inattentive to anything that proceeds from Him. Nor can He be compared to one of us who puts himself between a sick man and the sun, for then it is the case that because of him, but not through his choice (although he does it consciously and not unwillingly either), the sick man is protected against the sun’s heat, and it is his body which causes the shadow, but it is his soul, not his body, which knows that the shadow is falling and is pleased about it. But this does not apply to the First: in Him the agent is at the same time the knower and the one that is pleased; that is, He is not unwilling, and He is conscious that His perfection consists in the emanation proceeding from Him. Yes, even if it were possible to assume that the man’s body causing the shadow were identical with the knower of the shadow, who is pleased with it, even then he would not be similar to the First. For the First is both knower and agent, and His knowledge is the principle of His act; and His consciousness of Himself as the principle of the universe is the cause of
the emanation of the universe and the existing order; and the existing order is the consequence of the order thought of, in the sense that it occurs through Him and that
He is the agent of the universe without there being an addition to His knowledge of the
universe, since His knowledge of the universe is the cause of the emanation of the
universe from Him, and His knowledge of the universe does not add anything to His
self-consciousness, for He could not be self-conscious if He did not know that He is
the principle of the universe, the object of His knowledge is in first intention His own
essence, and the universe is the object of His knowledge in second intention, "and this
is the meaning of His being an agent. And when it is said that He has power, nothing is
meant but that He is an agent in the way we have stated, namely, that His existence is
the existence from which the powers emanate through the emanation of which the
arrangement of the world is ordered in the most perfect way possible in
accomplishment and beauty. And when it is said that He is willing, nothing is meant
but that He is not inattentive to what emanates from Him and that He is not opposed to
it; no, He knows that in the emanation of the universe His own perfection is attained,
and it is permissible to say in this sense that He is satisfied, and it is permissible to say
of the satisfied that He is willing; and His will is nothing but His very power and His
power is nothing but His very knowledge and His knowledge nothing but His very
essence, so that everything is reduced to His very essence. For His knowledge of
things is not derived from things, for otherwise He would acquire His quality and
perfection through another, and this is impossible in the necessary existent. But our
knowledge is twofold: partly knowledge of a thing which results from its form like our
knowledge of the form of heaven and earth, partly knowledge of our own invention,
when we represent in ourselves the form of a thing we do not see and then produce it;
in this case the existence of the form is derived from the knowledge and not the
knowledge from the existence. Now the knowledge the First has is of the second
category, for the representation of the order in Himself is the cause of the emanation of
the order from Him. Indeed, if the mere presence of the form of a picture or of writing
in our souls were sufficient for the occurrence of this form, then our knowledge would
be identical with our power and our wills but through our deficiency our representation
does not suffice to produce the form, but we need besides a new act of will which
results from our appetitive faculty, so that through these two the power which moves
our muscles and our nerves in our organs can enter into motion, and through the
movement of our muscles and nerves our hand or any other member can move, and
through its movement the pen or any other external instrument can come into motion
and through the movement of the pen the matter, e.g. the ink, can move, and so the
form is realized which we represented in our souls. Therefore the very existence of this
form in our souls is not a power and an act of will; no, in us power lies in the principle
which moves our muscles and this form moves the mover which is the principle of the
power. But this is not the case with the necessary existent, for He is not composed of
bodies from which the powers in His extremities originate, and so His power, His will,
His knowledge, and His essence are all one.

When it is said that He is living, nothing is meant but that He is conscious of the
knowledge through which the existent which is called His act emanates from Him. For
the living is the doer, the perceiver, and the meaning of the term is His essence in
relation to His acts in the way we have described, not at all like our life, which can be
only perfected through two different faculties from which perception and action result.
But His life again is His very essence.

And when it is said that He is generous, what is meant is that the universe
emanates from Him, but not for an end which refers to Himself, for generosity is
perfected by two conditions: first that the receiver of the benefit has profit of what is
given to him, for the giving of something to one who is not in need of it is not called
generosity; secondly, that the benefactor is not himself in need of generosity, so that he
himself becomes a benefactor through a need he experiences himself, and anyone who
is generous out of a desire for praise and approbation or to avoid blame seeks a reward
and is not generous. But true generosity belongs to God alone, for He does not seek to avoid blame, nor does He desire a perfection acquired through praise, and the term ‘generosity’ indicates His existence in relation to His act and with the denial of an end, and this does not imply a plurality in His essence.

When He is said to be the absolute good, it means that His existence is free from any imperfection and from any possibility of non-existence, for badness has no essence, but refers to the non-existence of an essence or to the absence of the goodness of the essence. For existence itself, in so far as it is existence, is good, and therefore this term refers to the negation of the possibility of non-existence and of badness. Sometimes ‘good’ means that which is the cause of the order in things, and the First is the principle of the order of everything and therefore He is good; and in this case the term signifies existence in a certain kind of relation.

When He is said to be a necessary existent, this existence is meant with the denial of a cause for His existence and the impossibility of a cause for His non-existence, in the beginning and at the end.

When it is said that He is the lover and the beloved, the enjoyer and the enjoyed, it means that He is every beauty and splendour and perfection, and that He is beloved and desired by the possessor of this perfection and the only meaning of ‘enjoyment’ is the perception of appropriate perfection. If it could be imagined of a single man that he knew his own perfection in comprehending all intelligibles, if he could comprehend them, that he knew the beauty of his own form, the perfection of his power, the strength of his limbs, in short if he perceived in himself the presence of all perfection of which he was capable, he would love his perfection and enjoy it, and his enjoyment would only be incomplete through the possibility of its loss and its diminution, for the joy which refers to the transitory, or to what is feared to be transitory, is not perfect. But the First possesses the most perfect splendour and the most complete beauty, since all perfection is possible to Him and present in Him, and He perceives this beauty, secure against the possibility of its diminution and loss, and the perfection He possesses is superior to all perfection, and His love and His enjoyment of this perfection are superior to all love and to all enjoyment, and His enjoyment cannot be compared in any way to our enjoyment and is too glorious to be called enjoyment, joy, and delight, for we have no expressions for such concepts, and using these terms metaphorically for Him, we must be conscious of the great distance between His will, power, and knowledge, from our will, power, and knowledge, and it is not impossible that this term ‘enjoyment’ should be regarded as improper and that another term should be used. What we want to express is that His state is more glorious than the conditions of the angels, and more desirable, and the condition of the angels is more glorious than our condition; and if there were no other joy than in bodily desire and sex, the condition of the ass and the pig would be superior to the state of the angels, but the angels, who are separate from matter, have no other joy than the joy arising from the knowledge of their share in perfection and beauty, the cessation of which is not to be feared. But the joy of the First is superior to the joy of the angels, and the existence of the angels which are intellects separate from matter is possible in its essence and necessary of existence through another, and the possibility of non-existence is a kind of badness and imperfection, and nothing is absolutely free from badness except the First, and He is the absolute good and He possesses the utmost splendour and beauty; further, He is the beloved, whether anyone else loves Him or not, as He is the knower and the known, whether anyone else knows Him or not. And all these concepts refer to His essence and to His perception and to His knowledge of His essence, and the knowledge of His essence is His very essence, for He is pure intellect, and all this leads back to one single notion.

This is the way to set forth their doctrine, and these things can be divided into that which may be believed (but we shall show that according to their own principles they
must regard it as untrue) and into that which may not be believed (and we shall show its falsehood). We shall now return to the five classes of plurality and to their claim to deny them, and shall show their inability to establish their proof, and shall treat each question separately.

I say:
The greater part of what he mentions in his description of the philosophical theories about God as being one, notwithstanding the plurality of attributes ascribed to Him, he has stated accurately, and we shall not argue with him about it, with the exception of his statement that to Him the designation of ‘intellect’ is a negation; for this is not true—on the contrary it is the most special appellation for His essence according to the Peripatetics, in contrast to Plato’s opinion that the intellect is not the First Principle and that intellect cannot be attributed to the First Principle? Nor is his statement that in the separate intellects there is potency, non-existence, and badness a philosophical theory. But we shall now return to his refutations in these five questions.

THE SIXTH DISCUSSION
TO REFUTE THEIR DENIAL OF ATTRIBUTES

Ghazali says:
The philosophers agree—exactly as do the Mu’tazilites—that it is impossible to ascribe to the First Principle knowledge, power, and will, and they affirm that we have received these terms through the Divine Law, and that they may be used as verbal expressions, but that they refer to one essence as we have explained previously, and that it is not permissible to accept an attribute additional to its essence in the way we may consider, as regards ourselves, our knowledge, power, and will, as attributes of ourselves, additional to our essence. And they affirm that this causes a plurality, because if these attributes are supposed to occur to us in the course of our development, we know that they are additional to our essence, because they constitute new facts; on the other hand, if they are supposed to be simultaneous with our existence without any time-lag, their simultaneity does not prevent them from being an addition to our essence.; For when one thing is added to another and it is known that they are not identical, it is thought, even if they are simultaneous, that they are two. Therefore the fact that these qualities would be simultaneous with the essence of the First does not prevent them from being extraneous to its essence, and this causes a plurality in the necessary existent, and this is impossible; and therefore they all agree in the denial of the attributes.

I say:
The difficulty for the man who denies a plurality of attributes consists in this: that different attributes are reduced to one essence, so that for instance knowledge, will, and power would mean one and the same thing and signify one single essence, and that also knowledge and knower, power and possessing power, will and willer would have one and the same meaning. The difficulty for the man, however, who affirms that there exist both an essence and attributes additional to the essence, consists in this: that the essence becomes a condition for the existence of the attributes and the attributes a condition for the perfection of the essence, and that their combination would be a necessary existent, that is, one single existent in which there is neither cause nor effect. And this latter difficulty cannot be really solved when it is assumed that there exists an essentially necessary existent, for this implies that it must be one in every way and can in no way be composed of the condition and the conditioned and of cause and effect, for such a composition would have to be either necessary or possible; (1) if necessary, it would be necessary through another, not through itself, since it is difficult to assume an eternal compound as existing through itself, i. e. as not having a cause for its composition, and this is especially difficult for the man who believes that every accident is temporal, since the fact of being a compound would be an eternal accident; (2) if possible, a cause would be needed to join together the effect and the cause. Now, according to philosophical principles it is quite impossible that there should be a compound existing by itself, having eternal attributes,
since the composition would be a condition of its existence; and its parts could not be agents for
the composition, for the composition would have to be a condition for their existence. Therefore,
when the parts of any natural compound are disjoined, their original name can be only applied to
them equivocally, e. g. the term ‘hand’, used of the hand which is a part of the living man and the
hand which has been cut off; and every compound is for Aristotle transitory and a fortiori cannot be
without a cause?

But as to the system of Avicenna, with its division of the necessary existent from the possible
existent, it does not lead to the denial of an eternal compound; for when we assume that the possible
ends in a necessary cause and that the necessary cause must either have a cause or not, and in the
former case must end in a necessary existent which has no cause, this reasoning leads through the
impossibility of an infinite regress to a necessary existence which has no efficient cause, however,
to an existent which has no cause at all, for this existent might have a formal or a material cause,
unless it is assumed that everything which has matter and form, or in short every compound, must
have an external cause; but this needs a proof which the demonstration based on the principle of the
necessary existent does not contain, even if we do not consider the mistake in it we have already
mentioned. And for exactly the same reason the proof of the Ash’arites that every temporal
occurrence needs a cause does not lead to an eternal First Principle which is not composite, but only
to a First Principle which is not temporal.

As to the fact that knower and knowledge are one, it is not impossible, but necessary, that such
pairs of things lead up to the unity of their concepts; e. g. if the knower knows through knowledge,
that through which he becomes a knower is more apt to be a knower, for the quality which any thing
acquires from another is in itself more apt to possess the concept which is acquired, e. g. if the living
bodies in our sublunary world are not alive by themselves, but through a life which inheres in them,
then necessarily this life through which the non-living acquires life is alive by itself, or there would
be an infinite regress; and the same is the case with knowledge and the other attributes.

Now, it cannot be denied that one essence can have many attributes related, negative, or imaginary,
in different ways without this implying a plurality in the essence, e. g. that a thing is an existent and
one and possible or necessary, I for when the one identical entity is viewed in so far as something else
proceeds from it, it is called capable and acting, and in so far as it is viewed as differentiating between
two opposite acts, it is called willing, and in so far as it is viewed as perceiving its object, knowing,
and in so far as it is viewed as perceiving and as a cause of motion, it is called living, since the living
is the perceiving and the self-moving. What is impossible is only a single simple existence with a
plurality of attributes, existing by themselves, and especially if these attributes should be essential and
exist in act, and as to these attributes existing in potency, it is not impossible, according to the
philosophers, that something should be one in fact and a plurality in potency, and this is the case
according to them, with the parts of the definition in their relation to the thing defined.

And as to Ghazali’s words:

And they affirm that this causes a plurality . . . that they are two.

He means by them that the fact that these attributes are simultaneous with the essence does not
prevent them from being necessarily a plurality by themselves, just as, if their existence were
posterior to the essence, or if some of them were posterior to others, mind would not conceive them
as being one.

After stating the view of the philosophers, Ghazali says:

But it must be said to the philosophers: How do you know the impossibility of plurality of
this kind? for you are in opposition to all the Muslims, the Mu’tazilites
excepted, and what is your proof of it? If someone says: ‘Plurality is impossible, since
the fact that the essence is regarded as one is equivalent to the impossibility of its
having a plurality of attributes’ this is just the point under discussion, and the
impossibility is not self-evident, and a proof is needed. They have indeed two proofs.

The first is that they say that, when subject and attribute are not identical, either both,
subject and attribute, can exist independently of the other, or each will need the other,
or only one of them will depend on the other. In the first case they will both be
necessary existents, and this implies an absolute duality and is impossible. In the
second case neither of them will be a necessary existent, because the meaning of a
necessary existent is that it exists by itself and does not depend in any way on anything
else, and when a thing requires something else, that other is its cause, since, if this other were annulled, its existence would be impossible and it would therefore exist not by itself but through another. In the third case the one which was dependent would be an effect and the necessary existent would be the other, on which it would be dependent, and that which was an effect would need a cause and therefore this would necessarily involve connecting the essence of the necessary existent with a cause. 

I say:

When their opponents concede to the philosophers that there is an existent necessary by itself and that the meaning of the necessary existent is that it has no cause at all, neither in its essence through which it subsists, or through something external, they cannot escape the conclusion which the philosophers forced upon them: that if the attributes existed through the essence, the essence would be an existent necessary through itself, and the attributes would be necessary through something different from themselves, and the essence of the necessary existent would exist by itself, but the attributes would be necessary through something different from themselves, and essence and attributes together would form a compound. But the Ash’arites do not concede to the philosophers that the existence of a necessary existent, subsisting by itself, implies that it has no cause whatsoever, for their argument leads only to the denial of an efficient cause additional to the essence.

Ghazali says:

The objection against this is to say: The case to be accepted is the last, but we have shown in the fifth discussion that you have no proof for your denial of the first case, that of absolute duality; what is affirmed by you in the fifth discussion can only be justified by basing it upon your denial of plurality in this and the following discussions: how can you therefore base this discussion upon what" is itself the upshot of this discussion? But the correct solution is to say: ‘The essence does not need the attributes for its subsistence, whereas the attributes need a subject, as is the case with us ourselves. ‘ There remains their statement that what is in need of something else is not a necessary existent.

One may ask them: Why do you make such a statement, if you understand by ‘necessary existent’ only that which has no efficient cause, and why is it impossible to say that, just as there is no agent for the essence of the necessary existent, which is eternal, there is no agent for its attributes, which are equally eternal? If, however, you understand by ‘necessary existent’ that which has no receptive cause, we answer that that is not implied in this conception of the necessary existent, which, according to this conception is all the same eternal and has no agent; and what is wrong with this conception?

If it is answered that the absolute necessary existent is that which has no efficient cause and no receptive cause, for if a receptive cause for it were conceded, it would be conceded that it was an effect—we say: To call the receptive essence a receptive cause is one of your technical terms, and there is no proof of the real existence of a necessary existent corresponding to your terminology; all that is proved is that there must be a final term to the series of causes and effects, and no more, and this series can end in a unit with eternal attributes which have no more an agent than the essence itself, and are supposed to be in the essence itself. But let us put aside this term ‘necessary existent’, which is full of possible confusion. The proof indeed only demonstrates the end of the series and nothing more, and your further claims are pure presumption.

If it is said: In the same way as the series of efficient causes must have an end, the series of receptive causes must have an end, since if every existent needed a substratum to inhere in it and this substratum again needed a substratum, this would imply an infinite series, just as this would be the case if every existent needed a cause and this cause again another cause—we answer: You are perfectly right and for this very reason we say that the series has an end and that the attribute exists in its essence and that this essence does not exist in something else, just as our knowledge exists in our essence and our essence is its substratum, but does not exist itself in a substratum. The series of efficient causes comes to an end for the attribute at the same time as for the
essence, since the attribute has an agent no more than the essence has, still the
essence provided with this attribute does not cease to exist, although neither itself nor
its attribute has a cause. As to the receptive causes, its series can only end in the
essence, for how could the negation of a cause imply the negation of a substratum?
The proof does not demonstrate anything but the termination of the series, and every
method by which this termination can be explained is sufficient to establish the proof
which demands the existence of the necessary existent. But if by ‘necessary existent’ is
understood something besides the existent which has no efficient cause and which
brings the causal series to an end, we do not by any means concede that this is
necessary. And whenever the mind regards it as possible to acknowledge an eternal
existent which has no cause for its existence, it regards it as possible to acknowledge
an eternal subject for which there is no cause, either for its essence or for its attribute.

As to Ghazali’s words:

We have shown in the fifth discussion that you have no proof for your denial of the
first case, that of absolute duality; what is affirmed by you in the fifth discussion can
only be justified by basing it upon your denial of plurality.

I say:

Ghazali means the philosophers’ denial that subject and attribute are both subsistent by themselves,
for from this it follows that they are independent of each other and that both are independent gods,
which is a dualistic theory, since there is no connexion through which attribute and subject could
become a unity. And since the philosophers used as an argument for the denial of this kind of
plurality the fact that it has dualism as its consequence, ‘ and a demonstration ought to proceed in the
opposite sense, namely, that dualism would have to be denied, because of the impossibility of
plurality, he says that their proof is circular and that they proved the principle by the conclusion.

Their objection, however, was not based upon the facts themselves, but on the theory of their
opponents who deny dualism. And you have learned in another place that there are two kinds of
refutation, one based on the objective facts, the other based on the statement of the opponent, and
although the former is the true kind of refutation, the second type may also be used.

As to Ghazali’s words:

But the correct solution is to say: ‘The essence does not need the attributes for its
subsistence, whereas the attributes need a subject, as is the case with us ourselves.’
There remains their statement that what is in need of another is not a necessary
existent.

I say:

Ghazali means that, when this tripartite division which they use to deny plurality is submitted to
them, the facts lead them to establish that (i) the necessary existent cannot be a compound of attribute
and subject; (2) the essence cannot be a plurality of attributes, for they cannot accept these things
according to their principles. Then he starts to show that the impossibility which they strive to deduce
from this division is not strict.

As to Ghazali’s words:

One may ask them: Why do you make such a statement, if you understand by
‘necessary existent’ only that which has no efficient cause, and why is it impossible to
say that, just as there is no agent for the essence of the necessary existent, which is
eternal, there is no agent for its attributes, which are equally eternal?

I say:

All this is an objection to Avicenna’s method of denying the attributes by establishing the
necessary existent which exists by itself, but in this question the most convincing method of showing
the necessity of unity and forcing it as a consequence upon the Ash’arites is the method of the
Mu’tazilites. For the latter understand by ‘possible existence’ the truly possible, ‘ and they believe
that everything below the First Principle is such. Their opponents, the Ash’arites, accept this, and
believe also that every possible has an agent, and that the series comes to an end through what is not
possible in itself. The Mu’tazilites concede this to them, but they believe that from this concession it
follows that the First, which is the final term of the series of possibility, is not a possible, and that this
implies its absolute simplicity. The Ash’arites, however, say that the denial of true possibility does
not imply simplicity, but only eternity and the absence of an efficient cause, and therefore there is
among the Ash’arites no proof of the simplicity of the First through the proof based on the
necessary existent. z
And Ghazali says:

If it is answered that the absolute necessary existent is that which has no efficient
cause and no receptive cause, for if a receptive cause for it were conceded, it would be
conceded that it was an effect.

I say:

Ghazali means that, if the philosophers say that the proof has led to a necessary existent which has
no efficient cause, it has, according to them, no receptive cause either, and that according to the
philosophers the assumption of essence and attributes implies the assumption of a receptive cause.

Then Ghazali, answering this, says:

We say: To call the receptive essence a receptive cause is one of your technical
terms, and there is no proof for the real existence of a necessary existent corresponding
to your terminology; all that is proved is that there must be a final term to the series of
causes and effects.

I say:

Ghazali means that the Ash’arites do not concede that this essence in which the attributes inhere is
a receptive cause, ‘ so as to be forced to admit an efficient cause for it. He says that the proof of the
philosophers does not lead to an existent which has no receptive cause, let alone proving the existence
of what has no essence and no attributes. It only proves that it has no efficient cause. This objection is
a necessary consequence of their own proof. Even if the Ash’arites had accepted the philosophical
theory that what has no efficient cause has no receptive cause, their own statement would not have
been overthrown, for the essence which they assume only receives attributes which do not belong to
the First, since they assume that the attributes are additional to the essence of the First, and they do
not admit essential attributes in the way the Christians do.

And as to Ghazali’s words:

If it is said: In the same way as the series of efficient causes must have an end, the
series of receptive causes must have an end, since if every existent needed a
substratum to inhere in it and this substratum again needed a substratum, this would
imply an infinite series, just as this would be the case if every existent needed a cause
and this cause again another cause we answer: You are perfectly right and for this very
reason we say that the series has an end and that the attribute exists in its essence and
that this essence does not exist in something else, just as our knowledge exists in our
essence and our essence is its substratum, but does not exist itself in a substratum.

I say:

This statement has no connexion with this discussion either with respect to the philosophical
theories he mentions or with respect to the answers he gives, and it is a kind of sophism, for there
exists no relation between the question, whether the receptive causes must or must not have an end,
and the problem which is under discussion, namely whether it is a condition of the First Agent that it
should have a receptive cause. For the inquiry about the finiteness of receptive causes differs from the
inquiry about the finiteness of efficient causes, since he who admits the existence of receptive causes
admits necessarily that their series must end in a primary receptive cause which is necessarily external
to the First Agent, just as he admits the existence of a First Agent external to the receptive matter. For
if the First Agent possessed matter, this matter would not exist numerically and individually either in
the first recipient or in the inferior recipients of other things; ‘ no, if the First Agent possessed matter,
this matter would have to be a matter peculiar to it, and in short it would belong to it; that is, either it
would be its primary matter or we should arrive at a first recipient, and this recipient would not be of
the genus which is the condition for the existence of all the other existents proceeding from the First
Agent. ‘ But if matter were the condition for the existence of the First Agent, it would be a condition
for the existence of all agents in their actions, and matter would not only be a condition for the
existence of the agent’s act-since every agent acts only on a recipient -but it would be a condition for
the existence of the agent itself, and therefore every agent would be a body.

All this the Ash’arites neither admit nor deny. But when the philosophers tell them that an essence
to which such an attribute is ascribed must be a body, they answer: ‘Such an attribute is ascribed by
you to the soul and yet, according to you, the soul is not a body. ‘ This is the limit to which dialectical
arguments in this question can be carried. But the demonstrations are in the works of the ancients which they wrote about this science, and especially in the books of Aristotle, not in the statements of Avicenna about this problem and of other thinkers belonging to Islam, if anything is to be found in them on this question. For their metaphysical theories are pure presumptions, since they proceed from common, not particular, notions, i.e. notions which are extraneous to the nature of the inquiry.

And as to Ghazali’s words:

The series of efficient causes comes to an end for the attribute at the same time as for the essence, since the attribute has an agent no more than the essence has, still the essence provided with this attribute does not cease to exist, although neither itself nor its attribute has a cause.

I say:

This is a statement which is not accepted by their opponents, the philosophers; on the contrary, they affirm that it is a condition of the First Agent that it should not receive an attribute, because reception indicates matter and it is therefore not possible to assume as the final term of the causal series an agent of any description whatsoever, but only an agent which has absolutely no agent, and to which no attribute-from which it would follow that it had an agent-can be ascribed. For the assumption of the existence of an attribute of the First Agent existing in a receptive cause which would be a condition for its existence is thought by the philosophers to be impossible. Indeed, anything for the existence of which there is a condition can only be connected with this condition through an external cause, for a thing cannot itself be the cause of its connexion with the condition of its existence, just as it cannot be the cause of its own existence. For the conditioned, if it were not connected with its condition, would have to exist by itself, and it needs an efficient cause to connect the condition with it, since a thing cannot be the cause of the existence of the condition of its own existence; but all these are common notions. And in general one cannot imagine that it is possible to arrive by this method, as applied to this problem, at something near evidence, because of the equivocation in the term ‘existent necessary by itself’, and in the term ‘possible by itself, necessary through another’, and the other preliminary notions which are added to them.

Ghazali says:

The second proof of the philosophers is that they say that the knowledge and the power in us do not enter the quiddity of our essence, but are accidental, and when these attributes are asserted of the First, they too do not enter the quiddity of its essence, but are accidental in their relation to it, even if they are lasting; for frequently an accident does not separate itself from its quiddity and is a necessary attribute of it, but still it does not therefore become a constituent of its essence. And if it is an accident, it is consequent on the essence and the essence is its cause, and it becomes an effect, and how can it then be a necessary existent?’

Then Ghazali says, refuting this:

This proof is identical with the first, notwithstanding the change of expression. For we say: If you mean by its being consequent on the essence, and by the essence’s being its cause, that the essence is its efficient cause, and that it is the effect of the essence, this is not true, for this is not valid of our knowledge in relation to our essence, since our essence is not an efficient cause of our knowledge. If you mean that the essence is a substratum and that the attribute does not subsist by itself without being in a substratum, this is conceded, and why should it be impossible? For if you call this ‘consequent’ or ‘accident’ or ‘effect’ or whatever name you want to give it, its meaning does not change, since its meaning is nothing but ‘existing in the essence in the way attributes exist in their subjects’. And it is by no means impossible that it should exist in the essence, and be all the same eternal and without an agent. All the proofs of the philosophers amount to nothing but the production of a shock by the use of a depreciating expression: ‘possible’, ‘permissible’, ‘consequent’, ‘connected’, ‘effect’-but all this may be ignored. For it must be answered: If by this you mean that it has an agent, it is not true, and if only it is meant that it has no agent, but that it has a substratum in which it exists, then let this meaning be indicated by any expression you want, and still it will not become impossible.

I say:
This is using many words for one idea. But in this question the difference between the opponents consists in one point, namely: ‘Can a thing which has a receptive cause be without an agent or not?’ Now it belongs to the principles of the theologians that the connexion of condition and conditioned appertains to the domain of the permissible’ and that whatever is permissible needs for its realization and actualization an agent which actualizes it and connects the condition with the conditioned, and that the connexion is a condition for the existence of the conditioned and that it is possible neither that a thing should be the cause of the condition of its existence, nor that the condition should be the efficient cause of the existence of the conditioned, for our essence is not the efficient cause of the existence of the knowledge which exists in it, but our essence is a condition for the existence of the knowledge existing in it. And because of all these principles it is absolutely necessary that there should exist an efficient cause which brings about the connexion of condition and conditioned, and this is the case with every conjunction of a condition and a conditioned. But all these principles are annulled by the philosophical theory that heaven is eternal, although it possesses essence and attributes, for the philosophers do not give it an agent of the kind which exists in the empirical world, as would be the consequence of these principles; they only assume that there is a proof which leads to an eternal connexion through an eternal connecting principle, and this is another kind of connexion, differing from that which exists in transitory things. But all these are problems which need a serious examination. And the assumption of the philosophers that these attributes do not constitute the essence is not true, for every essence is perfected by attributes through which it becomes more complete and illustrious, and, indeed, it is constituted by these attributes, since through knowledge, power, and will we become superior to those existents which do not possess knowledge, and the essence in which these attributes exist is common to us and to inorganic things. How therefore could such attributes be accidents consequent on our essence? All these are statements of people who have not studied well the psychological and accidental attributes.

Ghazali says:
And often they shock by the use of a depreciating expression in another way, and they say: This leads to ascribing to the First a need for these attributes, so that it would not be self-sufficient absolutely, since the absolutely self-sufficient is not in need of anything else.

Then Ghazali says, refuting this:
This is an extremely weak verbal argument, for the attributes of perfection do not differ from the essence of the perfect being in such a way that he should be in need of anything else. And if he is eternally perfect through knowledge, power, and life, how could he be in need of anything, or how could his being attached to perfection be described as his being in need? It would be like saying that the perfect needs no perfection and that he who is in need of the attributes of perfection for his essence is imperfect; the answer is that perfection cannot mean anything but the existence of perfection in his essence, and likewise being self-sufficient does not mean anything but the existence of attributes that exclude every need in his essence. How therefore can the attributes of perfection through which divinity is perfected be denied through such purely verbal arguments?

I say:
There are two kinds of perfection: perfection through a thing’s own self and perfection through attributes which give their subject its perfection, and these attributes must be in themselves perfect, for if they were perfect through perfect attributes, we should have to ask whether these attributes were perfect through themselves or through attributes, and we should have therefore to arrive at that which is perfect by itself as a final term. Now the perfect through another will necessarily need, according to the above principles if they are accepted, a bestower of the attributes of perfection; otherwise it would be imperfect. But that which is perfect by itself is like that which is existent by itself, and how true it is that the existent by itself is perfect by itself? If therefore there exists an existent by itself, it must be perfect by itself and self-sufficient by itself; otherwise it would be composed of an imperfect essence and attributes perfecting this essence. If this is true, the attribute and its subject are one and the same, and the acts which are ascribed to this subject as proceeding necessarily from different attributes exist only in a relative way.

Ghazali says, answering the philosophers:
And if it is said by the philosophers: When you admit an essence and an attribute and the inherence of an attribute in the essence, you admit a composition, and every compound needs a principle which composes it, and just because a body is composed, God cannot be a body—we answer:

Saying that every compound needs a composing principle is like saying that every existent needs a cause for its existence, and it may be answered.

The First is eternal and exists without a cause and without a principle for its existence, and so it may be said that it is a subject, eternal, without a cause for its essence, for its attribute and for the existence of its attribute in its essence; indeed all this is eternal without a cause. But the First cannot be a body, because body is a temporal thing which cannot be free from what is temporal: however, he who does not allow that body has a beginning must be forced to admit that the first cause can be a body, and we shall try later to force this consequence on the philosophers.

I say:

Composition is not like existence, because composition is like being set in motion, namely, a passive quality, additional to the essence of things which receive the composition, but existence is a quality which is the essence itself, and whoever says otherwise is mistaken indeed. Further, the compound cannot be divided into that which is compound by itself and that which is compound through another, so that one would finally come to an eternal compound in the way one arrives, where existents are concerned, at an eternal existent, and we have treated this problem in another place.

And again: If it is true, as we have said, that composition is something additional to existence, then one may say, if there exists a compound by itself, then there must exist also something moved by itself, and if there exists something moved by itself, then also a privation will come into existence by itself, for the existence of a privation is the actualization of a potency, and the same applies to motion and the thing moved. But this is not the case with existence, for existence is not an attribute additional to the essence, and every existent which does not exist sometimes in potency and sometimes in act is an existent by itself, whereas the existence of a thing as moved occurs only when there is a moving power, and every moved thing therefore needs a mover.

The distinctive point in this problem is that the two parts in any compound must be either (i) mutually a condition for each other’s existence, as is, according to the Peripatetics, the case with those which are composed of matters and forms, or (2) neither of them a condition for the existence of the other, or (3) exclusively one the condition for the other.

In the first case the compound cannot be eternal, because the compound itself is a condition for the existence of the parts and the parts cannot be the cause of the compound, nor the compound its own cause, for otherwise a thing might be its own cause, and this kind of compound, therefore, is transitory and needs an agent for its actualization.

In the second case—and for these compounds it is not in the nature of either of their parts that it implies the other—there is no composition possible without a composing factor, external to the parts, since the composition is not of their own nature so that their essence might exist through their nature or be a consequence of their nature; and if their nature determined the composition and they were both in themselves eternal, their composition would be eternal, but would need a cause which would give it unity, since no eternal thing can possess unity accidentally.

In the third case, and this is the case of the non-essential attribute and its subject, if the subject were eternal and were such as never to be without this attribute, the compound would be eternal. But if this were so, and if an eternal compound were admitted, the Ash’arite proof that all accidents are temporal would not be true, since if there were an eternal compound there would be eternal accidents, one of which would be the composition, whereas the principle on which the Ash’arites base their proof of the temporality of accidents is the fact that the parts of which a body, according to them, is composed must exist first separately; if, therefore, they allowed an eternal compound, it would be possible that there should be a composition not preceded by a separation, and a movement, not preceded by a rest, and if this were permissible, it would be possible that a body possessing eternal accidents should exist, and it would no longer be true for them that what cannot exist without the temporal is temporal. And further, it has already been said that every compound is only one because of a oneness existing in it, and this oneness exists only in it through something which is one through itself. And if this is so, then the one, in so far as it is one, precedes every compound, and the act of
this one agent—if this agent is eternal—through which it gives all single existents which exist through it their oneness, is everlasting and without a beginning, not intermittent; for the agent whose act is attached to its object at the time of its actualization is temporal and its object is necessarily temporal, but the attachment of the First Agent to its object is everlasting and its power is everlasting mixed with its object. And it is in this way that one must understand the relation of the First, God, praise be to Him, to all existents. But since it is not possible to prove these things here, let us turn away from them, since our sole aim was to show that this book of Ghazali does not contain any proofs, but mostly sophisms and at best dialectical arguments. But proofs are very rare, and they stand in relation to other arguments as unalloyed gold to the other minerals and the pure pearl to the other jewels. ‘And now let us revert to our subject.

Ghazali says:

All their proofs where this problem is concerned are imaginary. Further, they are not able to reduce all the qualities which they admit to the essence itself, for they assert, that it is knowing, and so they are forced to admit that this is something additional to its mere existence, and then one can ask them: ‘Do you concede that the First knows something besides its essence?’ Some of them concede this, whereas others affirm that it only knows its own self. The former position is that taken by Avicenna, for he affirms that the First knows all things in a universal timeless way, but that it does not know individuals, because to comprehend their continual becoming would imply a change in the essence of the knower. z But, we ask, is the knowledge which the First has of all the infinite number of species and genera identical with its self-knowledge or not? If you answer in the negative, you have affirmed a plurality and have contradicted your own principle; if you answer in the affirmative, you are like a man claiming that man’s knowledge of other things is identical with his self-knowledge and with his own essence, and such a statement is mere stupidity. And it may be argued: ‘The definition of an identical thing is that its negation and affirmation cannot be imagined at the same time, and the knowledge of an identical thing, when it is an identical thing, cannot at the same time be imagined as existing and not existing. And since it is not impossible to imagine a man’s self-knowledge without imagining his knowledge of something else, it may be said that his knowledge of something else is different from his self-knowledge, since, if they were the same, the affirmation or negation of the one would imply the affirmation or negation of the other. For it is impossible that Zaid should be at one and the same time both existing and not existing, but the existence of self-knowledge simultaneously with the non-existence of the knowledge of something else is not impossible, nor is this impossible with the self-knowledge of the First and its knowledge of something else, for the existence of the one can be imagined without the other and they are therefore two things, whereas the existence of its essence without the existence of its essence cannot be imagined, and if the knowledge of all things formed a unity, it would be impossible to imagine this duality. Therefore all those philosophers who acknowledge that the First knows something besides its own essence have undoubtedly at the same time acknowledged a plurality.

I say:

The summary of this objection to the proposition that the First knows both itself and something else is that knowing one’s self is different from knowing something else. But Ghazali falls here into confusion. For this can be understood in two ways: first, that Zaid’s knowledge of his own individuality is identical with his knowledge of other things, and this is not true; secondly, that man’s knowledge of other things, namely of existents, is identical with the knowledge of his own essence, and this is true. ‘And the proof is that his essence is nothing but his knowledge of the existents. z For if man like all other beings knows only the quiddity which characterizes him, and if his quiddity is the knowledge of things, then man’s self-knowledge is necessarily the knowledge of all other things, for if they were different his essence would be different from his knowledge of things. This is clear in the case of the artisan, for his essence, through which he is called an artisan, is nothing but his knowledge of the products of art. ; And as to Ghazali’s words, that if his self-knowledge were identical with his knowledge of other things, then the negation of the one would be the negation of the other and the
affirmation of the one the affirmation of the other, he means that if the self-consciousness of man were identical with his knowledge of other things, he could not know his own self without knowing the other things; that is, if he were ignorant of other things, he would not know his own self, and this proposition is in part true, in part false. For the quiddity of man is knowledge, and knowledge is the thing known in one respect and is something different in another. And if he is ignorant of a certain object of knowledge, he is ignorant of a part of his essence, and if he is ignorant of all knowables, he is ignorant of his essence; and to deny man this knowledge is absolutely the same as to deny man’s selfconsciousness, for if the thing known is denied to the knower in so far as the thing known and knowledge are one, man’s self-consciousness itself is denied. But in so far as the thing known is not knowledge, it is not man, and to deny man this knowledge does not imply the denial of man’s selfconsciousness. And the same applies to individual men. For Zaid’s knowledge of Amr is not Zaid himself, and therefore Zaid can know his own self, while being ignorant of Amr.

Ghazali says:

If it is said: 'The First does not know other things in first intention. No, it knows its own essence as the principle of the universe, and from this its knowledge of the universe follows in second intention, since it cannot know its essence except as a principle, for this is the true sense of its essence, and it cannot know its essence as a principle for other things, without the other things entering into its knowledge by way of implication and consequence; it is not impossible that from its essence consequences should follow, and this does not imply a plurality in its essence, and only a plurality in its essence is impossible’—there are different ways of answering this. First your assertion that it knows its essence to be a principle is a presumption; it suffices that it knows the existence of its essence, and the knowledge that it is a principle is an addition to its knowledge of its essence, since being a principle is a relation to the essence and it is possible that it should know its essence and not this relation, and if this being-a-principle were not a relation, its essence would be manifold and it would have existence and be a principle, and this forms a duality. And just as a man can know his essence without knowing that he is an effect, for his being an effect is a relation to his cause, so the fact that the First is a cause is a relation between itself and its object. This consequence is implied in the mere statement of the philosophers that it knows that it is a principle, since this comprises the knowledge of its essence and of its being a principle, and this is a relation, and the relation is not the essence, and the knowledge of the relation is not the knowledge of the essence and we have already given the proof of this, namely that we can imagine knowledge of the essence, without the knowledge of its being a principle, but knowledge of the essence without the knowledge of the essence cannot be imagined, since the essence is an identical unity.

I say:

The proposition which the philosophers defend against Ghazali in this question is based on philosophical principles which must be discussed first. For if the principles they have assumed and the deductions to which, according to them, their demonstration leads, are conceded, none of the consequences which Ghazali holds against them follows. The philosophers hold, namely, that the incorporeal existent is in its essence nothing but knowledge, for they believe that the forms’ have no knowledge for the sole reason that they are in matter; but if a thing does not exist in matter, it is known to be knowing, and this is known because they found that when forms which are in matter are abstracted in the soul from matter they become knowledge and intellect, for intellect is nothing but the forms abstracted from matter, and if this is true for things which by the principle of their nature are not abstracted, then it is still more appropriate for things which by the principle of their nature are abstracted to be knowledge and intellect. And since what is intelligible in things is their innermost reality, and since intellect is nothing but the perception of the intelligibles, our own intellect is the intelligible by itself, in so far as it is an intelligible, and so there is no difference between the intellect and the intelligible, except in so far as the intelligibles are intelligibles of things in the nature of which there is no intellect and which only become intellect because the intellect abstracts their forms from their matters, and through this our intellect is not the intelligible in every respect. But if there is a thing which does not exist in matter, then to conceive it by intellect is identical with its intelligible in
every respect, and this is the case with the intellectual conception of the intelligibles. And no doubt the intellect is nothing but the perception of the order and arrangement of existing things, but it is necessary for the separate intellect that it should not depend on the existing things in its intellectual conception of the existing things and of their order, and that its intelligible should not be posterior to them, for every other intellect is such that it follows the order which exists in the existents and perfects itself through it, and necessarily falls short in its intellectual conception of the things, and our intellect, therefore, cannot adequately fulfill the demands of the natures of existing things in respect of their order and arrangement. But if the natures of existing things follow the law of the intellect and our intellect is inadequate to perceive the natures of existent things, there must necessarily exist a knowledge of the arrangement and order which is the cause of the arrangement, order and wisdom which exist in every single being, and it is necessary that this intellect should be the harmony which is the cause of the harmony which exists in the existents, and that it should be impossible to ascribe to its perception knowledge of universals, let alone knowledge of individuals, because universals are intelligibles which are consequent on and posterior to existents, whereas on the contrary the existents are consequent on this intellect. And this intellect necessarily conceives existents by conceiving the harmony and order which exist in the existents through its essence, not by conceiving anything outside its essence, for in that case it would be the effect, not the cause, of the existent it conceives, and it would be inadequate.

And if you have understood this philosophical theory, you will have understood that the knowledge of things through a universal knowledge is inadequate, for it knows them in potency, and that the separate intellect only conceives its own essence, and that by conceiving its own essence it conceives all existents, since its intellect is nothing but the harmony and order which exist in all beings, and this order and harmony is received by the active powers which possess order and harmony and exist in all beings and are called natures by the philosophers. For it seems that in every being there are acts which follow the arrangement and order of the intellect, and this cannot happen by accident, nor can it happen through an intellect which resembles our intellect; no, this can only occur through an intellect more exalted than all beings, and this intellect is neither a universal nor an individual. And if you have understood this philosophical theory, all the difficulties which Ghazali raises here against the philosophers are solved; but if you assume that yonder intellect resembles our own, the difficulties mentioned follow. For the intellect which is in us is numerable and possesses plurality, but this is not the case with yonder intellect, for it is free from the plurality which belongs to our intelligibles and one cannot imagine a difference in it between the perceiver and the perceived, whereas to the intellect which is in us the perception of a thing is different from the perception that it is a principle of a thing, and likewise its perception of another is different in a certain way from the perception of itself. Still, our intellect has a resemblance to yonder intellect, and it is yonder intellect which gives our intellect this resemblance, for the intelligibles which are in yonder intellect are free from the imperfections which are in our intellect: for instance, our intellect only becomes the intelligible in so far as it is an intelligible, because there exists an intellect which is the intelligible in every respect. The reason for this is that everything which possesses an imperfect attribute possesses this attribute necessarily through a being which possesses it in a perfect way. For instance, that which possesses an insufficient warmth possesses this through a thing which possesses a perfect warmth, and likewise that which possesses an insufficient life or an imperfect intellect possesses this through a thing which possesses a perfect life or a perfect intellect. And in the same way a thing which possesses a perfect rational act receives this act from a perfect intellect, and if the acts of all beings, although they do not possess intellects, are perfect rational acts, then there exists an intellect through which the acts of all beings become rational acts.

It is weak thinkers who, not having understood this, ask whether the First Principle thinks its own essence or if it thinks something outside its essence. But to assume that it thinks something outside its essence would imply that it is perfected by another thing, and to assume that it does not think something outside its essence would imply that it is ignorant of existents. One can only wonder at these people who remove from the attributes which are common to the Creator and the created, all the imperfections which they possess in the created, and who still make our intellect like His intellect, whereas nothing is more truly free from all imperfection than His intellect. This suffices for the present chapter, but now let us relate the other arguments of Ghazali in this chapter and call attention to the mistakes in them.
Ghazali says:

The second way to answer this assertion is to say that their expression that everything is known to it in second intention is without sense, for as soon as its knowledge comprehends a thing different from itself, in the way it comprehends its own essence, this First Principle will have two different objects of knowledge and it will know them both, for the plurality and the difference of the object known imply a plurality in the knowledge, since each of the two objects known receives in the imagination the discrimination which distinguishes it from the other. And therefore the knowledge of the one cannot be identical with the knowledge of the other, for in that case it would be impossible to suppose the existence of the one without the other, and indeed there could not be an other at all, since they would both form an identical whole, and using for it the expression ‘second intention’ does not make any difference. Further, I should be pleased to know how he who says that not even the weight of an atom, either in heaven or earth, escapes God’s knowledge, ‘ intends to deny the plurality, unless by saying that God knows the universe in a universal way. However, the universals which form the objects of His knowledge would be infinite, and still His knowledge which is attached to them would remain one in every respect, notwithstanding their plurality and their differentiation.

I say:

The summary of this is found in two questions. The first is, ‘How can its knowledge of its own self be identical with its knowledge of another?’ The answer to this has already been given, namely that there is something analogous in the human mind which has led us to believe in the necessity of its being in the First Intellect.

The second question is whether its knowledge is multiplied through the plurality of its objects known and whether it comprehends all finite and infinite knowables in a way which makes it possible that its knowledge should comprehend the infinite. The answer to this question is that it is not impossible that there should exist in the First Knowledge, notwithstanding its unity, a distinction between the objects known, and it is not impossible, according to the philosophers, that it should know a thing, different from itself, and its own essence, through a knowledge which differs in such a way that there should exist a plurality of knowledge. The only thing which is absolutely impossible according to them is that the First Intellect should be perfected through the intelligible and caused by it, and if the First Intellect thought things different from itself in the way we do, it would be an effect of the existent known, not its cause, and it has been definitely proved that it is the cause of the existent. The plurality which the philosophers deny does not consist in its knowing through its own essence, but in its knowing through a knowledge which is additional to its essence; the denial, however, of this plurality in God does not imply the denial of a plurality of things known, except through dialectics, and Ghazali’s transference of the problem of the plurality which is in the knowledge, according to the philosophers, to the problem of plurality which is in the things known themselves, is an act of sophistry, because it supposes that the philosophers deny the plurality which is in the knowledge through the things known, in the way they deny the plurality which arises through the duality of substratum and inherent.

But the truth in this question is that there is not a plurality of things known in the Eternal Knowledge like their numerical plurality in human knowledge. For the numerical plurality of things known in human knowledge arises from two sources: first the representations, and this resembles spatial plurality; secondly the plurality of what is known in our intellect, namely the plurality which occurs in the first genus—which we may call being—through its division into all the species which are subsumed under it, for our intellect is one; with respect to the universal genus which comprises all species existing in the world, whereas it becomes manifold through the plurality of the species. And it is clear that when we withhold the idea of the universal from the Eternal Knowledge, this plurality is in fact abandoned and there only remains in the Divine a plurality the perception of which is denied to our intellect, for otherwise our knowledge would be identical with this eternal knowledge, and this is impossible. And therefore what the philosophers say is true, that for the human understanding there is a limit, where it comes to a stand, and beyond which it cannot trespass, and this is our inability to understand the nature of this knowledge. And again, our intellect is knowledge of the existents in potency, not knowledge in act, and knowledge in potency is less perfect than knowledge in act; and
the more our knowledge is universal, the more it comes under the heading of potential knowledge and the more its knowledge becomes imperfect. But it is not true of the Eternal Knowledge that it is imperfect in any way, and in it there is no knowledge in potency, for knowledge in potency is knowledge in matter. Therefore the philosophers believe that the First Knowledge requires that there should be a knowledge in act and that there should be in the divine world no universal at all and no plurality which arises out of potency, like the plurality of the species which results from the genus. And for this reason alone we are unable to perceive the actually infinite, that the things known to us are separated from each other, and if there exists a knowledge in which the things known are unified, then with respect to it the finite and the infinite are equivalent.

The philosophers assert that there are definite proofs for all these statements, and if we understand by ‘plurality in knowledge’ only this plurality and this plurality is denied of the Divine, then the knowledge of God is a unity in act, but the nature of this unity and the representation of its reality are impossible for the human understanding, for if man could perceive the unity, his intellect would be identical with the intellect of the Creator, and this is impossible. And since knowledge of the individual is for us knowledge in act, we know that God’s knowledge is more like knowledge of the individual than knowledge of the universal, although it is neither the one nor the other. And he who has understood this understands the Divine Words: ‘Nor shall there escape from it the weight of an atom, either in the heavens or in the earth’, and other similar verses which refer to this idea.

Ghazali says:

Avicenna, however, has put himself in opposition to all the other philosophers who, in order not to commit themselves to the consequence of plurality, took the view that the First only knows itself; how, then, can he share with them the denial of plurality? Still he distinguished himself from them by admitting its knowledge of other things, since he was ashamed to say that God is absolutely ignorant of this world and the next and knows only His own self-whereas all others know Him, and know also their own selves and other things, and are therefore superior to Him in knowledge-and he abandoned that blasphemous philosophical theory, refusing to accept it. Still he was not ashamed of persisting in the denial of this plurality in every respect, and he affirmed that God’s knowledge of Himself and of other things, yes, of the totality of things, is identical with His essence without this implying any contradiction, and this is the very contradiction which the other philosophers were ashamed to accept, because of its obviousness. And thus no party among the philosophers could rid itself of a blasphemous doctrine, and it is in this manner that God acts towards the man who strays from His path and who believes that he has the power through his speculation and imagination to fathom the innermost nature of the Divine.

I say:

The answer to all this is clear from what we have said already, namely that the philosophers only deny that the First Principle knows other things than its own self in so far as these other things are of an inferior existence, so that the effect should not become a cause, nor the superior existence the inferior; for knowledge is identical with the thing known. They do not, however, deny it, in so far as it knows these other things by a knowledge, superior in being to the knowledge by which we know other things; on the contrary, it is necessary that it should know them in this way, because it is in this way that the other things proceed from the First Agent. As to the inquiry about the possibility of a plurality of things known in the Eternal Knowledge, that is a second question, and we have mentioned it, and it is not because of this that the philosophers sought refuge in the theory that the First knows only its own self, as Ghazali wrongly supposes; no, only because in short-as we have declared already-its knowledge should not be like our knowledge which differs from it in the extreme. And Avicenna wanted only to combine these two statements, that it knows only its own essence and that it knows other things by a knowledge superior to man’s knowledge of them, since this knowledge constitutes its essence, and this is clear from Avicenna’s words that it knows its own self and other things besides itself; and indeed all things which constitute its essence, although Avicenna does not explain this, as we have done. And, therefore, these words of his are not a real contradiction, nor are the other philosophers ashamed of them; no, this is a statement about which, explicitly or implicitly, they all agree. And if you have grasped this well, you will have understood Ghazali’s bad faith in his attack on the philosophers, although he agrees with them in the greater part of their opinions.
Ghazali says, on behalf of the philosophers:

It may be said that if it is asserted that the First knows its own self as a principle by way of relation, the knowledge of two correlatives is one and the same, for the man who knows the son knows him through one single knowledge in which the knowledge of the father, of fatherhood, and sonhood are comprised, so that the objects of knowledge are manifold, but the knowledge is one. ' And in the same way the First knows its essence as a principle for the other things besides itself and so the knowledge is one, although what is known is manifold. Further, if the First thinks this relation in reference to one single effect and its own relation towards it, and this does not imply a plurality, then a plurality is not implied by an addition of things which generically do not imply a plurality. ' And likewise he who knows a thing and knows his knowing this thing, knows this thing through this knowledge, and therefore all knowledge is self-knowledge connected with the knowledge of the thing known, ' and the known is manifold, but knowledge forms a unity. ; An indication of this is also that you theologians believe that the things known to God are infinite, but His knowledge is one, and you do not attribute to God an infinite number of cognitions; if, indeed, the manifoldness of the known implied a plurality in the knowledge itself, well, let there then be an infinite number of cognitions in the essence of God. But this is absurd.

Then Ghazali says, answering the philosophers:

We say: Whenever knowledge is one in every respect, it cannot be imagined that it should be attached to two things known; on the contrary, this determines a certain plurality, according to the assumption and tenet of the philosophers themselves about the meaning of ‘plurality’, so that they even make the excessive claim that if the First had a quiddity to which existence were attributed, this would imply a plurality. And they do not think that to a single unity possessing reality existence also can be attributed; no, they assert that the existence is brought in relation to the reality and differs from it and determines a plurality, and on this assumption it is not possible that knowledge should attach itself to two objects of knowledge without this implying a greater and more important kind of plurality than that which is intended in the assumption of an existence, brought in relation to a quiddity. And as to the knowledge of a son and similarly of other relative concepts, there is in it a plurality, since there must necessarily be knowledge of the son himself and the father himself, and this is a dual knowledge, and there must be a third knowledge, and this is the relation; indeed, this third knowledge is implied in the dual knowledge which precedes it, as they are its necessary condition, for as long as the terms of relation are not known previously, the relation itself cannot be known, and there is thus a plurality of knowledge of which one part is conditioned through another. Likewise when the First knows itself as related to the other genera and species by being their principle, it needs the knowledge of its own essence and of the single genera and it must further know that there exists between itself and those genera and species the relation of being a principle, for otherwise the existence of this relation could not be supposed to be known to it. And as to their statement that he who knows something knows that he is knowing through this knowledge itself, so that the thing known can be manifold, but the knowledge remains one, this is not true; on the contrary, he knows that he knows through another knowledge, and this ends in a knowledge to which he does not pay attention and of which he is no longer conscious, and we do not say that there is an infinite regress, but there is a final term of knowledge attached to the thing known, and he is unconscious of the existence of the knowledge, but not of the existence of the known, like a man who knows the colour black and whose soul at the moment of his knowing it is plunged in the object of his knowledge, the colour black, and who is unconscious of his knowing this colour black and whose attention is not centred on it, for if it were, he would need another knowledge till his attention came to a stand. ‘ And as to the affirmation of the philosophers that this can be turned against the theologians concerning the things known by God, for they are infinite, whereas God’s knowledge according to the theologians is one, we answer, ‘We have not plunged ourselves into
this book to set right, but to destroy and to refute, and for this reason we have called this book “The Incoherence of the Philosophers”, not “The Establishment of the Truth”, and this argument against us is not conclusive.

And if the philosophers say: ‘We do not draw this conclusion against you theologians in so far as you hold the doctrine of a definite sect but in so far as this problem is applied to the totality of mankind, and the difficulty for all human understanding is the same, and you have no right to claim it against us in particular, for it can be turned against you also, and there is no way out of it for any party’—we answer: ‘No, but our aim is to make you desist from your claim to possess knowledge of the essential realities through strict proofs, and to make you doubt. And when your impotence becomes evident, we say that there are men who hold that the divine realities cannot be attained through rational inquiry, for it is not in human power to apprehend them and it was for this reason that Muhammad, the Lord of the Law, said “Ponder over God’s creation, but do not ponder over God’s essence”. Why then do you oppose this group of men who believe in the truth of the prophet through the proof of his miracles, ‘ who confine the judgement of the intellect to a belief in God, the Sender of the Prophets, who guard themselves against any rational speculation about the attributes, who follow the Lord of the Law in his revelations about God’s attributes, who accept his authority for the use of the terms “the knowing”, “the wiser”, “the powerful”, “the living”, who refuse to acknowledge those meanings which are forbidden and who recognize our impotence to reach the Divine Intellect? You only refute these men in so far as they are ignorant of the methods of demonstration and of the arrangement of premisses according to the figures of the syllogisms, and you claim that you know these things by rational methods; but now your impotence, the breakdown of your methods, the shamelessness of your claim to knowledge, have come to light, and this is the intention of our criticism. And where is the man who would dare to claim that theological proofs have the strictness of geometrical proofs?’;

I say:

All this prolix talk has only a rhetorical and dialectical value. And the arguments which he gives in favour of the philosophers about the doctrine of the unity of God’s knowledge are two, the conclusion of which is that in our concepts there are conditions which do not through their plurality bring plurality into the concepts themselves, just as there appear in the existents conditions which do not bring plurality into their essences, for instance that a thing should be one and exist and be necessary or possible. And all this, if it is true, is a proof of a unique knowledge comprising a multitude, indeed an infinite number, of sciences.

The first argument which he uses in this section refers to those mental processes which occur to the concept in the soul and which resemble the conditions in the existents with respect to the relations and negations, which exist in them; for it appears from the nature of the relation which occurs in the concepts that it is a condition through which no plurality arises in the concepts, ‘ and it is now argued that the relation which presents itself in the related things belongs to this class of conditions. Ghazali objects to this that the relation and the terms of the relation form a plurality of knowledge, and that for instance our knowledge of fatherhood is different from our knowledge of the father and the son. Now the truth is that the relation is an attribute additional to the terms of the relation outside the soul in the existents, but as to the relation which exists in the concepts, it is better suited to be a condition than an attribute additional to the terms of the relation;’ however, all this is a comparison of man’s knowledge with the Eternal Knowledge, and this is the very cause of the mistake. Everyone who concerns himself with doubt about the Eternal Knowledge and tries to solve it by what occurs in human knowledge does indeed transfer the knowledge from the empirical to the Divine concerning two existents which differ in an extreme degree, not existents which participate in their species or genus, but which are totally unlike.

The second proof is that we know a thing through a single knowledge and that we know by a knowledge which is a condition in the first knowledge, not an attribute additional to it, and the proof of this is that otherwise there would arise an infinite series. Now Ghazali’s answer, that this knowledge is a second knowledge and that there is no infinite series here, is devoid of sense, for it is self-evident that this implies such a series, and it does not follow from the fact that when a man
knows a thing but is not conscious that he knows the fact that he knows, that in the case when lie knows that he knows, this second knowledge is an additional knowledge to the first; no, the second knowledge is one of the conditions of the first knowledge and its infinite regress is therefore not impossible; if, however, it were a knowledge existing by itself and additional to the first knowledge, an infinite series could not occur. ‘

As to the conclusion which the philosophers force upon the theologians, that all the theologians recognize that God’s knowledge is infinite and that at the same time it is one, this is an *negamentum ad hominem*, not an objective argument based on the facts themselves. And from this there is no escape for the theologians, unless they assume that the knowledge of the Creator differs in this respect from the knowledge of the creature, and indeed there is no one more ignorant than the man who believes that the knowledge of God differs only quantitatively from the knowledge of the creature, that is that He only possesses more knowledge. All these are dialectical arguments, but one may be convinced of the fact that God’s knowledge is one and that it is not an effect of the things known; no, it is their cause, and a thing that has numerous causes is indeed manifold itself, whereas a thing that has numerous effects need not be manifold in the way that the effects form a plurality. And there is no doubt that the plurality which exists in the knowledge of the creature must be denied of God’s knowledge, just as any change through the change of the objects known must be denied of Him, and the theologians assume this by one of their fundamental principles. ‘ But the arguments which have been given here are all dialectical arguments.

And as to his statement that his aim here is not to reach knowledge of the truth but only to refute the theories of the philosophers and to reveal the inanity of their claims, this is not worthy of him—but rather of very bad men. And how could it be otherwise? For the greater part of the subtlety this man acquired—and he surpassed ordinary people through the subtlety he put in the books he composed—he only acquired from the books of the philosophers and from their teaching. And even supposing they erred in something, he ought not to have denied their merit in speculative thought and in those ideas through which they trained our understanding. Nay more, if they had only invented logic, he and anyone else who understands the importance of this science ought to thank them for it, and he himself was conscious of the value of logic and urged its study and wrote treatises about it, and he says that there is no other way to learn the truth than through this science, and he had even such an exaggerated view of logic that he extracted it from the book of God, the holy Qur’an. ‘ And is it allowed to one who is indebted to their books and to their teaching to such an extent that he excelled his contemporaries and that his fame in Islam became immense, is it really allowed to such a man to speak in this way of them, and to censure them so openly, so absolutely, and condemn their sciences? And suppose they erred in certain theological questions, we can only argue against their mistakes by the rules they have taught us in the logical sciences, and we are convinced that they will not blame us when we show them a mistake which might be found in their opinions. And indeed their aim was only the acquisition of truth, and if their only merit consisted in this, it would suffice for their praise, although nobody has said anything about theological problems that can be absolutely relied upon and nobody is guaranteed against mistakes but those whom God protects in a divine, superhuman way, namely the prophets, and I do not know what led this man to this attack against such statements; may God protect me against failings in word and in deed and forgive me if I fail!

And what he says of the belief held by those who follow the Divine Law in these things is in agreement with what is said by the renowned philosophers, for when it is said that God’s knowledge and attributes cannot be described by, or compared to, the attributes of the creature, so that it cannot even be asserted that they are essence or an addition to the essence, this expresses the thought of genuine philosophers and other true thinkers, and God is the Saviour, the Leader.

Ghazali says:

It may be said, ‘This difficulty applies only to Avicenna in so far as he says that the First knows other things, but the acknowledged philosophers are in agreement that it does not know anything besides itself, and this difficulty is therefore set aside. ‘

But we answer, ‘What a terrible blasphemy is this doctrine! Verily, had it not had this extreme weakness, later philosophers would not have scorned it, but we shall draw attention to its reprehensible character, for this theory rates God’s effects higher than Himself, since angel and man and every rational being knows himself and his principle and knows also of other beings, but the First knows only its own self and is therefore
inferior to individual men, not to speak of the angels; indeed, the animals besides
their awareness of themselves know other things, and without doubt knowledge is
something noble and the lack of it is an imperfection. And what becomes of their
statement that God, because He is the most perfect splendour and the utmost beauty, is
the lover and the beloved? But what beauty can there be in mere existence which has
no quiddity, no essence, which i observes neither what occurs in the world nor what is
a consequence or proceeds from its own essence? And what deficiency in God’s whole
world could be greater? And an intelligent man may well marvel at a group of men
who according to their statement speculate deeply about the intelligibles, but whose
inquiry culminates in a Lord of Lords and Cause of causes who does not possess any
knowledge about anything that happens in the world. What difference is there then
between Him and the dead, except that He has self-consciousness? And what
perfection is there in His self-knowledge, if He is ignorant of everything else? And the
blasphemy of this doctrine releases us from the use of many words and explanations.

Further, there may be said to them: ‘Although you plunge yourselves in these
shameful doctrines, you cannot free yourselves from plurality, for we ask: “Is the
knowledge He has of His essence identical with His essence or not?” If you say, “No”,
you introduce plurality, and if you say they are identical, what then is the difference
between you and a man who said that a man’s knowledge of his essence was identical
with his essence, which is pure foolishness? For the existence of this man’s essence
can be conceived, while he gives no attention to his essence, ‘ whereas when
afterwards his attention returns, he becomes aware of his essence. Therefore his
awareness of his essence differs from his essence. ‘

If it is argued: ‘Certainly a man can be without knowledge of his essence, but when
this knowledge occurs to him, he becomes a different being’, we answer: ‘Non-identity
cannot be understood through an accident and conjunction, for the identical thing
cannot through an accident become another thing and that other thing, conjoined with
this, does not become identical with it, but keeps its individual otherness. And the fact
that God is eternally self-conscious does not prove that His knowledge of His essence
is identical with His essence, for His essence can be imagined separately and the
occurrence of His awareness afterwards, and if they were identical this could not be
imagined.

And if it be said: ‘His essence is intellect and knowledge, and He has not an
essence in which afterwards knowledge exists’, we answer: ‘The foolishness of this is
evident, for knowledge is an attribute and an accident which demands a subject, and to
say, “He is in His essence intellect and knowledge” is like saying, “He is power and
will, and power and will exist by themselves”, and this again is like saying of black
and white, quantity, fourness and threeness and all other accidents that they exist by
themselves. And in exactly the same way as it is impossible that the attributes of
bodies should exist by themselves without a body which itself is different from the
attributes, it is known to be impossible that attributes like the knowledge, life, power,
and will of living beings should exist by themselves, for they exist only in an essence.
For life exists in an essence which receives life through it, and the same is the case
with the other attributes. And therefore they do not simply content themselves with
denying to the First all qualities (and not merely its real essence and quiddity); no, they
deny to it also its very existence by itself and reduce it to the entities of accidents and
attributes which have no existence by themselves; and besides we shall show later in a
special chapter their incapacity to prove that it is conscious either of itself or of other
things. ‘

I say:

The problem concerning the knowledge of the Creator of Himself and of other things is one of
those questions which it is forbidden to discuss in a dialectical way, let alone put them down in a
book, for the understanding of the masses does not suffice to understand such subtleties, and when
one embarks on such problems with them the meaning of divinity becomes void for them and
therefore it is forbidden to them to occupy themselves with this knowledge, since it suffices for their
blessedness to understand what is within their grasp. The Holy Law, the first intention of which is the instruction of the masses, z does not confine itself to the explanation of these things in the Creator by making them understood through their existence in human beings, for instance by the Divine Words: ‘Why dost thou worship what can neither hear nor see nor avail thee aught?', ‘but enforces the real understanding of these entities in the Creator by comparing them even to the human limbs, for instance in the Divine Words: ‘Or have they not seen that we have created for them of what our hands have made for them, cattle and they are owners thereof?’ and the Divine Words, ‘I have created with my two hands’. s This problem indeed is reserved for the men versed in profound knowledge to whom God has permitted the sight of the true realities, and therefore it must not be mentioned in any books except those that are composed according to a strictly rational pattern, that is, such books as must be read in a rational order and after the acquisition of other sciences the study of which according to a demonstrative method is too difficult for most men, even for those who possess by nature a sound understanding, although such men are very scarce. But to discuss these questions with the masses is like bringing poisons to the bodies of many animals, for which they are real poisons. Poisons, however, are relative, and what is poison for one animal is nourishment for another. The same applies to ideas in relation to men; that is, there are ideas which are poison for one type of men, but which are nourishment for another type. And the man who regards all ideas as fit for all types of men is like one who gives all things as nourishment for all people; the man, however, who forbids free inquiry to the mature is like one who regards all nourishment as poison for everyone. But this is not correct, for there are things which are poison for one type of man and nourishment for another type. ‘And the man who brings poison to him for whom it is really poison merits punishment, although it may be nourishment for another, and similarly the man who forbids poison to a man for whom it is really nourishment so that this man may die without it, he too must be punished. And it is in this way that the question must be understood. But when the wicked and ignorant transgress and bring poison to the man for whom it is really poison, as if it were nourishment, then there is need of a physician who through his science will exert himself to heal that man, and for this reason we have allowed ourselves to discuss this problem in such a book as this, and in any other case we should not regard this as permissible to us; on the contrary, it would be one of the greatest crimes, or a deed of the greatest wickedness on earth, and the punishment of the wicked is a fact well known in the Holy Law. And since it is impossible to avoid the discussion of this problem, let us treat it in such a way as is possible in this place for those who do not possess the preparation and mental training needed before entering upon speculation about it.

So we say that the philosophers, when they observed all perceptible things, found that they fell into two classes, the one a class perceptible by the senses, namely the individual bodies existing by themselves and the individual accidents in these bodies, and the other a class perceptible by the mind, namely, the quiddities and natures of these substances and accidents. And they found that in these bodies there are quiddities which exist essentially in them, and I understand by the ‘quiddities’ of bodies attributes existing in them, through which these bodies become existent in act and specified by the act which proceeds from them; and according to the philosophers these quiddities differ from the accidental attributes, because they found that the accidents were additions to the individual substance which exists by itself and that these accidents were in need of the substances for their existence, whereas the substances do not need the accidents for their own existence. And they found also that those attributes which were not accidents were not additional to the essence, but that they were the genuine essence of the individual which exists by itself, so that if one imagined these attributes annulled, the essence itself would be annulled. Now, they discovered these qualities in individual bodies through the acts which characterize each of them; for instance they perceived the attributes through which plants by their particular action become plants’ and the attributes through which animals by their particular actions become animals, and in the same way they found in the minerals forms of this kind which are proper to them, through the particular actions of minerals. Then, when they had investigated these attributes, they learned that they were in a substratum of this essence and this substratum became differentiated for them, because of the changing of the individual existents from one species into another species and from one genus into another genus through the change and alteration of these attributes; for instance the change of the nature of fire into air by the cessation of the attribute from which the actuality of fire, through which fire is called fire, proceeds, and its change into the attribute from which the actuality peculiar to air, through which air is called air,
proceeds. They also proved the existence of this substratum through the capacity of the individual essence to receive an actuality from another, just as they proved by the actuality the existence of form, for it could not be imagined that action and passivity proceed from one and the same natures. They believed therefore that all active and passive bodies are composed of two natures, one active and the other passive, and they called the active nature form, quiddity, and substance, and the passive part subject, ultimate basis of existence and matter. And from this it became clear to them that the perceptible bodies are not simple bodies as they appear to be to the senses, nor compounded of simple bodies, since they are compounded of action and passivity; and they found that what the senses perceive are these individual bodies, which are compounded of these two things which they called form and matter and that what the mind perceives of these bodies are these forms which only become concepts and intellect when the intellect abstracts them from the things existing by themselves, i.e., what the philosophers call substratum and matter. And they found that the accidents also are divided in the intellect in a way similar to those two natures, although their substratum in which they exist in reality is the bodies compounded of these two natures. And when they had distinguished the intelligibles from the sensibles and it had become clear to them that in sensible things there are two natures, potency and act, they inquired which of these two natures was prior to the other and found that the act was prior to the potency, because the agent was prior to its object, and they investigated also causes and effects, which led them to a primary cause which by its act is the first cause of all causes, and it followed that this cause is pure act and that in it there is no potency at all, since if there were potency in it, it would be in part an effect, in part a cause, and could not be a primary cause. And since in everything composed of attribute and subject there is potency and act, it was a necessary implication for them that the First could not be composed of attribute and subject, and since everything free from matter was according to them intellect, it was necessary for them that the First should be intellect.

This in summary is the method of the philosophers, and if you are one of those whose mind is sufficiently trained to receive the sciences, and you are steadfast and have leisure, it is your duty to look into the books and the sciences of the philosophers, so that you may discover in their works certain truths (or perhaps the reverse); but if you lack one of these three qualities, it is your duty to keep yourself to the words of the Divine Law, and you should not look for these new conceptions in Islam; for if you do so, you will be neither a rationalist nor a traditionalist.

Such was the philosophers’ reason for their belief that the essence which they found to be the principle of the world was simple and that it was knowledge and intellect. And finding that the order which reigns in the world and its parts proceeds from a knowledge prior to it, they judged that this intellect and this knowledge was the principle of the world, which gave the world existence and made it intelligible. This is a theory very remote from the primitive ideas of mankind and from common notions, so that it is not permitted to divulge it to the masses or even to many people; indeed, the man who has proved its evidence is forbidden to reveal it to the man who has no power to discover its truth, for he would be like his murderer. And as to the term ‘substratum’ which the philosophers give to that which is separate from matter, the First has the highest claim on the term ‘substratum’, the terms ‘existent’, ‘knowing’, ‘living’, and all the terms for the qualities it bestows on the existents and especially those attributes which belong to perfection, for the philosophers found that the proper definition of substance was what existed by itself and the First was the cause of everything that existed by itself.

To all the other reproofs which he levels against this doctrine no attention need be paid, except in front of the masses and the ordinary man, to whom, however, this discussion is forbidden.

And as to Ghazali’s words:

What beauty can there be in mere existence which has no quiddity, no essence, which observes neither what occurs in the world nor what is a consequence or proceeds from its own essence? . . .

-this whole statement is worthless, for if the philosophers assume a quiddity free from a substratum it is also void of attributes, and it cannot be a substratum for attributes except by being itself in a substratum and being composed of the nature of potency and the nature of act. The First possesses a quiddity that exists absolutely, and all other existents receive their quiddity only from it, and this First Principle is the existent which knows existents absolutely, because existents become existent and intelligible only through the knowledge this principle has of itself; for since this First Principle is the
cause of the existence and intelligibility of existents, of their existence through its quiddity and of their intelligibility through its knowledge, it is the cause of the existence and intelligibility of their quiddities. The philosophers only denied that its knowledge of existents could take place in the same way as human knowledge which is their effect, whereas for God’s knowledge the reverse is the case. For they had established this superhuman knowledge by proof. According to the Ash’arites, however, God possesses neither quiddity nor essence at all but the existence of an entity neither possessing nor being a quiddity cannot be understood, ¹ although some Ash’arites believed that God has a special quiddity by which He differs from all other existents, ¹ and according to the Sufis it is this quiddity which is meant by the highest name of God.

And as to Ghazali’s words:

Further, there may be said to them: ‘Although you plunge yourself in these shameful doctrines, you cannot free yourselves from plurality, for we ask: “Is the knowledge He has of His essence identical with His essence or not?” If you say, “No”, you introduce plurality, and if you say, “they are identical”, what then is the difference between you and a man who said that a man’s knowledge of his essence was identical with his essence?’

I say:

This is an extremely weak statement, and a man who speaks like this deserves best to be put to shame and dishonoured. For the consequence he draws amounts to saying that the perfect one, who is free from the attributes of becoming and change and imperfection, might have the attribute of a being possessing imperfection and change. For a man indeed it is necessary, in so far as he is composed of a substratum and knowledge, which exists in this substratum, that his knowledge should differ from his essence in such a way as has been described before, since the substratum is the cause of change in the knowledge and the essence. And since man is man and the most noble of all sentient beings only through the intellect which is conjoined to his essence, but not by being essentially intellect, it is necessary that that which is intellect by its essence should be the most noble of all existents and that it should be free from the imperfections which exist in the human intellect. ¹

And as to Ghazali’s words:

And if it be said: His essence is intellect and knowledge and He has not an essence in which afterwards knowledge exists, we answer: ‘The foolishness of this is evident, for knowledge is an attribute and an accident which demands a subject, and to say “He is in His essence intellect and knowledge” is like saying “He is power and will, and power and will exist by themselves”, and this again is like saying of black and white, fourness and threeness, and all other accidents that they exist by themselves.’

I say:

The error and confusion in his statement is very evident, for it has been proved that there is among attributes one that has a greater claim to the term ‘substantiality’ than the substance existing by itself, and this is the attribute through which the substance existing by itself becomes existing by itself. For it has been proved that the substratum for this attribute is something neither existing by itself nor existing in actuality; no, its existing by itself and its actual existence derive from this attribute, and this attribute in its existence is like that which receives the accidents, although certain of these attributes, as is evident from their nature, need a substratum in the changeable things, since it is the fundamental law of the accidents, that they exist in something else, whereas the fundamental law of the quiddities is that they exist by themselves, except when, in the sublunary world, these quiddities need a substratum through being in transitory things. But this attribute is at the greatest distance from the nature of an accident, and to compare this transcendent knowledge to sublunary accidents is extremely foolish, indeed more foolish than to consider the soul an accident like threeness and fourness.

And this suffices to show the incoherence and the foolishness of this whole argument, and let us rather call this book simply ‘The Incoherence’, not ‘The Incoherence of the Philosophers’. And what is further from the nature of an accident than the nature of knowledge, and especially the knowledge of the First? And since it is at the greatest distance from the nature of an accident, it is at the greatest distance from having a necessity for a substratum.
THE SEVENTH DISCUSSION

TO REFUTE THEIR CLAIM THAT NOTHING CAN SHARE WITH THE FIRST ITS GENUS, AND BE DIFFERENTIATED FROM IT THROUGH A SPECK DIFERENCE, AND THAT WITH RESPECT TO ITS INTELLECT THE DIVISION INTO GENUS AND SPECK DIFFERENCE CANNOT BE APPLIED TO IT,

Ghazali says:

Indeed, they are all of this opinion, and they deduce from this that, since nothing can share its genus, it cannot be differentiated through a specific difference and cannot have a definition, since a definition is constructed out of genus and specific difference and what has no composition cannot have a definition, for a definition is a kind of composition. ' And they affirm that, since the First is said to resemble the first effect in being an existent and a substance and a cause for other things, and to differ from it in other respects, this certainly does not imply sharing in its genus; no, it is nothing but a sharing in a common necessary attribute. The difference between genus and necessary attribute consists in their content, not in universality, according to logical theory, for the genus, namely, the essential universal, is the answer to the question what the thing is, and is subsumed under the quiddity of the thing defined, and constitutes its essence: a man's being alive is subsumed under the quiddity of man, i.e. his animality, and is his genus, but his being born and created are his necessary attributes, and, although they are universals which can never be separated from him, are not subsumed under his quiddity, according to logical theory, about which there can be no misgiving. ; And the philosophers affirm that existence is never subsumed under the quiddity of things, but stands in a relation to the quiddity, either necessarily and inseparably, like its relation to heaven, or subsequently, after their nonexistence, like its relation to temporary things, and that the sharing of existence does not imply a sharing in genus. And as to its sharing in 'being a cause to other things’ with all the other causes, this is a necessary relation which likewise cannot be subsumed under the quiddity, s for neither the fact of being a principle nor existence constitutes the essence, but they are necessary attributes of the essence, consequent upon the constitution of the essence out of the parts of its quiddity, and this community is only the sharing of a necessary common attribute consecutive to the essence, not a community of genus. Things therefore are only defined by their constituents, and if they are defined by the necessary attributes this is only a description’ to differentiate them, not to define their essential forms; for the triangle is not defined by the fact that its angles are equal to two right angles, although this is a necessary and common attribute of all triangles, but it is defined as a figure bounded by three sides. And the same applies to its being a substance, and the meaning of its being a substance is that it is an existent which does not exist in a substratum. ' And the existent is not a genus, since, as it is related to a negation, namely not being in a substratum, it cannot become a constituent genus; indeed, even if it could be brought into a relation to something positive and it could be said that it existed in a substratum, it could not become a genus in the accident. And the reason is that the man who knows substance by its definition, which is rather its description, namely that it is an existent which does not exist in a substratum, does not know whether it exists, and a fortiori does not know whether it exists in a substratum or not; no, the meaning of the description of substance is that it is the existent which does not exist in a substratum, i.e. that it is a certain reality which, when it does exist, does not exist in a substratum, but we do not mean that it actually exists at the time of the definition, and its community is not the community of the genus, for only the constituents of the quiddity form the community of the genus which needs also a specific differences But the First has no other quiddity, except necessary existence, and necessary existence is its real nature and its own quiddity, exclusively confined to
it, and since necessary existence is exclusively confined to the First, it cannot be shared by others, it cannot have a specific difference, and it cannot have a definition.

I say:

Here ends what Ghazali says of the philosophical views about this question, and it is partly true, partly false. As to his statement that no other thing can share with the First its genus and be distinguished from it through a specific difference, if he means by this the genus and the difference that are predicated univocally, it is true, for anything of this description is composed of a common form and a specific form, and such things possess a definition. But if by ‘genus’ is meant what is predicated analogically, I mean per prius et posterius, then it can have a genus, e. g. existent, or thing, or identity, or essence, and it can have a kind of definition, and this kind of definition is used in the sciences—for instance, when it is said of the soul that it is the entelechy of the natural organic body, and when it is said of the substance that it is the existent which does not exist in a substratum—but these definitions do not suffice for knowledge of the thing, and they are only given to indicate through it the different individuals which fall under such definitions and to represent their peculiarities. But as to his statement that according to the philosophers the term ‘existence’ only indicates a necessary attribute of the essences of things, this is not true, and we have already explained this in another place and none of the philosophers has said this but Avicenna. Having denied that existence is a genus, predicted either univocally or equivocally, Avicenna affirmed that it was a term which signified a common necessary attribute of things. But the difficulty he found in regarding existence as an essence can be held up against him when it is regarded as a necessary attribute, for if it were a necessary attribute, this necessary attribute could not be given as an answer to the question what a thing is. I And further, if ‘existence’ really signifies a necessary attribute in things, does it signify this necessary attribute univocally, or equivocally, or in some other mode of attribution? And if it has a univocal meaning, how can there be an accident univocally predicated of things essentially different (I believe that Avicenna regarded this as possible)? z It is, however, impossible, because from different things the congruous and identical can only derive, when these different things agree in one nature, since necessarily a single necessary attribute must come from one nature, just as a single act can proceed only from one nature. And since this is impossible, the term ‘existence’ indicates essences which have analogical meanings, essences some of which are more perfect than others; and therefore there exists in the things which have such an existence a principle which is the cause of that which exists in all the other things of this genus, just as our term ‘warm’ is a term which is predicated per prius et posterius of fire and all other warm things, and that of which it is asserted first, i. e. fire, is the cause of the existence of warmth in all other things, and the same is the case with substance, intellect, and principle and such terms (most metaphysical terms are of this kind), and such terms can indicate both substances and accidents.

And what he says of the description of substance is devoid of sense, but existence is the genus of substance and is included in its definition in the way the genera of the sublunary things are included in their definitions, and Farabi proved this in his book about demonstration, and this is the commonest view amongst philosophers. Avicenna erred in this only because, since he thought that the ‘existent’ means the ‘true’ in the Arabic language, and that what indicates the true indicates an accident-the true, however, really indicates one of the second, predicates, i. e. a predicabile—he believed that when the translator used the word ‘existent’ it meant only the ‘true’. This, however, is not so, for the translators meant only to indicate what is also meant by ‘entity’ and ‘thing’. Farabi explains this in his Book of the Letters and he shows that one of the reasons for the occurrence of this mistake is that the term ‘existent’ in Arabic is a derivative in form and that a derivative signifies an accident, and in fact an accident is linguistically a derivative. But since the translators did not find in Arabic a term which signified that concept which the ancient philosophers subdivided into substance and accident, potency and act, a term namely which should be a primitive symbol, some translators signified that concept by the term ‘existent’, not to be understood as having a derivative meaning and signifying therefore an accident, but as having the same meaning as ‘essence’. It is thus a technical term, not an idiomatic word. Some translators, because of the difficulty attached to it, decided to use for the concept, which the Greek language tried to express by deriving it from the pronoun which joins the predicate and the subject, the term which expresses this, because they thought that this word comes nearer to expressing this meaning, and they used instead of the term ‘existent’ the term ‘haecitas’, but the fact that its grammatical form is not found in Arabic hindered its use, and the other party therefore preferred the
term ‘existent’. - , And the term ‘existent’ which signifies the true does not signify the quiddity, and therefore one may often know the quiddity without knowing the existence, and this meaning of ‘existent’ of necessity does not signify the quiddity in the compound substance, but is in the simple substance identical with the quiddity; and this meaning is not what the translators intended by ‘existence’, for they meant the quiddity itself, and when we say of the existent that it is in part substance, in part accident, the sense meant by the translators must be understood, and this is the sense which is predicated analogically of different essences of things. When we say, however, that substance exists, it must be understood in the sense of the true. And therefore if we have understood the well-known discussion of the ancient philosophers, whether the existent is one or more than one, which is found in the first book of Aristotle’s Physics where he conducts a discussion with the ancient philosophers Parmenides and Melissus, s we need only understand by ‘existent’ that which signifies the essence. And if the ‘existent’ meant an accident in a substratum, then the statement that the existent was one would be self-contradictory. ‘ And all this is clear for the man who is well grounded in the books of the philosophers.

And having stated the views of the philosophers, Ghazali begins to refute them, and says:

This is the sense of the doctrine of the philosophers. And the discussion with them consists of two parts: a question and a refutation. The question is: This is the simple narration of your doctrine, but how do you know the impossibility of this with respect to God, so as to build on it the refutation of dualism, since you say that a second God would have to participate in something and differ from the first in something, and that which partly possesses something in common with another, partly is different from it, is compound, whereas that He should be compound is absurd?

I say:

I have already said that this is only valid for something which possesses a common feature through a genus which is predicated univocally, not analogically. For if, by the assumption of a second God, a God were assumed of the same rank of divinity as the first, then the name of God would be predicated univocally, and He would be a genus, and the two Gods would have to be separated by a specific distinction and both would be compounded of a genus and a specific distinction, and the philosophers do not allow a genus to an eternal being; but if the term ‘existence’ is predicated per prius et posterius, the prior will be the cause of the posterior.

Ghazali says, refuting the philosophers:

But we say: How do you know the impossibility of this kind of composition? For there is no proof except your denial of the attributes, which has been mentioned, namely that the compound of genus and species is an aggregate of parts; thus if it is possible for one or for a collection of the parts to exist without the others, this single one will be the necessary existent and the others will not be necessary; and if it is possible neither for the parts to exist without the totality, nor for the totality to exist without the parts, then the whole is an effect needing something else as its cause. We have already discussed this in the case of the attributes, and have shown that their plurality is not impossible, since an end of the causal series is admitted and all that is proved is that there is an end of the causal series. For those enormous difficulties which the philosophers have invented concerning the inherence of attributes in the necessary existent there is no proof whatever. If the necessary existent is what the philosophers describe it to be, namely to possess no plurality and not to need anything else for its existence, then there is no proof of the existence of this necessary existent; the only thing proved is that there is an end of the causal series, and we have exhausted this subject in our discussion of attributes. And for this kind of plurality it is still more obvious, for the division of a thing into genus and specific difference is not like the division of the subject into essence and attribute, since, indeed, the attribute is not the essence and the essence is not the attribute, but the species is not in every way different from the genus, for whenever we mention the species, we mention the genus with an addition, and when we speak of a man we only mention animal with the addition of reason. ‘ And to ask whether humanity can be free from animality is like asking whether humanity can be without itself, when something is added to it. And indeed genus and species are more distant from plurality than attribute and subject. '
And why should it be impossible that the causal series should end in two causes, one the cause of the heavens and the other the cause of the elements, or one the cause of the intellects and the other the cause of all bodies, and that there should be between those two causes a conceptual difference and separation as between redness and warmth when they exist in one and the same place? For they differ in content without our being obliged to assume in the redness a compound of genus and specific difference through which this difference is established; indeed, if it possesses a plurality, this kind of plurality does not impair the singleness of its essence, and why should this be impossible with respect to the causes? Through this there is shown the weakness of their refutation of the existence of two Gods.

I say:

Composition out of genus and specific difference is exactly the same as the composition of a thing in potency and a thing in act, for the nature which is indicated by the genus does not actually exist at any time without the presence of the nature which is called specific difference and form. And everything which is composed of these two natures is, according to the philosophers, transitory, and possesses an agent, for the specific difference is one of the conditions for the existence of the genus in so far as the genus is in potency and does not exist without the specific difference. And the conjunction of either with its partner is in a certain way a condition for the existence of the other. And as a thing cannot itself be a cause of the condition of its existence, it necessarily possesses a cause which provides it with existence by conjoining the condition and the conditioned. Also, according to the philosophers the recipient is in reality something which possesses only potency, and if it is actually, then only accidentally; and what is received is actuality, and if it is potency, then only accidentally; for the recipient and the thing it receives are only distinguished by the fact that one of them is potentially something else, whereas actually it is the thing received and whatever is potentially another thing must necessarily receive this other thing and lose the thing it actually is. Therefore, if there should exist a recipient in actuality and a thing received in actuality, both would exist by themselves, but the recipient is necessarily body, for only body, or what is in a body, possesses receptivity primarily, and receptivity cannot be attributed to accidents and forms, nor to the plane, the line, and the point, nor in general to what cannot be divided. As regards an incorporeal agent, this has been already proved, and as to an incorporeal recipient, or a recipient not embedded in matter, such a recipient is impossible, although there is a problem for the philosophers about the potential intellects And indeed, if the compound has a subject and an attribute which is not additional to its essence, b it is transitory and necessarily a body, and if it has a subject and an attribute additional to its essence, without its having any potency in its substance even in respect of this attribute, as is the case according to the ancients with the body of the heavens, it possesses quantity of necessity and is a body. For, if from such an essence, supporting the attribute, bodiliness were taken away, it would no longer be a perceptible recipient, and equally the sensory perception of its attribute would be annulled and its attribute and subject would both become intellect, and they would be reduced to one single simple entity, for from the nature of the intellect and the intelligible it is evident that they are both one and the same thing, since plurality exists in them accidentally, namely through the substratum. And in short, when the philosophers assume an essence and attributes additional to the essence, this amounts to their assuming an eternal body with accidents inherent in it, and they do not doubt that if they took away the quantity which is corporeity, the perceptible element in it would be annulled, and neither substratum nor inherent would exist any more; but if, on the other hand, they regarded the substratum and the inherent as abstracted from matter and body, the substratum and inherent would of necessity be both intellect and intelligible; but this is the Unique, the Uncompounded, God, the Truth.

As to his statement that the whole mistake of the philosophers consists in their calling the First the ‘necessary existent’, and that if instead they called it ‘the causeless’, the conclusion which they draw about the First, concerning the necessary attributes of the necessary existent, would not follow-this statement is not true. For since they assume an existent which has no cause, it follows necessarily that it is in itself a necessary existent, just as, when a necessary existent existing by itself is assumed, it follows necessarily that it has no cause, and if it has no cause it is more appropriate that it should not be divided into two things, cause and effect. The assumption of the theologians that the First is composed of an attribute and a subject implies that it has an efficient cause, and that therefore it is
neither a first cause nor a necessary existent, and this is in contradiction to their assumption that it is one of those existents of which the attribute and the subject are reduced to one single simple entity; but there is no sense in repeating this and expatiating on it.

And as to his statement that it is not impossible of God, the First, that He should be composed of a substratum and an attribute additional to the substratum, and that therefore a fortiori it is not impossible that He should be composed of a substratum and an attribute which is identical with its substratum, we have already explained the way in which this is not impossible, namely when both are abstract from matter.

And as to his statement that their refutation of dualism does not prevent the possibility of the existence of two Gods, one of whom would be, for instance, the cause of heaven and the other the cause of the earth, or one the cause of the intelligible and the other the cause of the sensible in the bodies, and that their differentiation and distinction need not determine a contradiction, as there is no contradiction in redness and warmth which exist in one place—this statement is not true. For if the production and creation of the existent is assumed to be the effect of one nature and of one essence, not of two different natures, it would necessarily follow that if a second thing of this nature were assumed, similar in nature and intellect to the first, they would share in one attribute and differ in another. And their difference would come about either through the kind of differentiation which exists between individuals or through the kind of differentiation which exists between species. In the latter case the term ‘God’ would be predicated of them equivocally, and this is in contradiction with their assumption, for the species which participate in the genus are either contraries or stand between contraries, and this is wholly impossible. And if they were individually differentiated, they would both be in matter, and this is in opposition to what is agreed about them. But if it is assumed that one of these natures is superior to the other and that this nature is predicated of them per prius et posterius, then the first nature will be superior to the second and the second will be necessarily its effect, so that for instance the creator of heaven will be the creator of the cause which creates the elements; and this is the theory of the philosophers. And both theories lead to the acceptance of a first cause; that of those who believe that the First acts through the mediation of many causes, and that of those who believe that the First is directly the cause of all other things without mediation. But according to the philosophers this latter theory cannot be true. For it is evident that the worlds exist through cause and effect, and it is inquiry concerning these causes which leads us to a first cause for everything. And if some of these different principles were wholly independent of others—that is, if some were not the cause of others—then the world could not be a single well-connected whole, and to the impossibility of this the Divine Words refer, ‘Were there in both heaven and earth Gods beside God, both surely would have been corrupted’.

Ghazali says:

It may be said: This is impossible so far as the difference which exists between these two essences is either a condition for their necessary existence (and in that case it will exist in both the necessary existents, and then they will not differ anyhow), or neither the one nor the other specific difference is a condition (and since the necessary existence is able to exist without the things that are not a condition for it, the necessary existence will be perfected by something else).

But we reply: This is exactly the same answer as you gave concerning the attributes and we have already discussed it, ‘and the source of confusion throughout this problem is the expression ‘necessary existent’; let us therefore get rid of this term; and indeed, we do not accept that demonstration proves a necessary existent, if anything else is meant by it but an eternal existent which has no cause, and if this is meant by it, let us abandon the term ‘necessary existent’ and let it be proved that an existent which has no cause and no agents cannot have a plurality and a distinctive mark, but indeed there is no proof of it. There remains therefore your question whether this specific difference is a condition of the causeless character of this causeless existent, and this is nonsense. For we have shown that there is no cause for its being without a cause, so as to make it possible to ask for its condition. It would be like asking whether blackness is a condition for the colour’s becoming a colour, and if it is a condition, why redness is then a colour. And the answer is: as to the essential nature of colour, i.e. in so far as the essence of colouredness is asserted in the intellect,
neither of them is a condition, < and as to its existence, each of them is a condition for its existence, but not individually, since a genus cannot exist in reality without a specific difference. And likewise the man who accepts two causes as starting-points of the series must say that they are differentiated through a specific difference, and both differences are a condition for their existence, no doubt, though not through their individuality.

I say:
The summary of what he says here of the proof of the philosophers is that they say that the specific difference through which the duality in the necessary existent occurs is either a condition or not a condition for necessary existence. If the specific difference through which they are distinguished is a condition for both the necessary existents, they will no longer be separated in their necessary existence and the necessary existent will be of necessity one and the same, just as, if black were to be a condition for the necessity of colour and white a condition for colouredness, they could not differ in colouredness. If, on the other hand, the specific difference does not enter into the essence of necessary existence, then both these necessary existents will have necessary existence only by accident, and their duality will not be based on their both being necessary existents. This, however, is not true, for the species are a condition for the existence of the genus, and both colours are a condition for the existence of the genus, though not individually (for in this case they could not exist together in the existence of the colour).

Ghazali opposes this statement with two arguments. The first is that this can only happen in so far as ‘necessary existent’ means a special nature; according to the theologians, however, this is not the case, for they understand by ‘necessary existent’ only something negative, namely something which has no cause, and since negative things are not caused, how can, for the denial of the causeless, an argument like the following be used: ‘That which distinguishes one causeless entity from another causeless entity is either a condition of its being causeless or not; if it is a condition, there cannot be any plurality or differentiation; and if it is not a condition, it cannot occasion a plurality in the causeless, which therefore will be one.’ However, the erroneous part in Ghazali’s reasoning is that he regards the causeless as a mere negation, and, as a negation has no cause, he asks how it could possess a condition which is the cause of its existence. But this is a fallacy, for particular negations, which are like infinite terms and which are used for distinguishing between existents, , have causes and conditions which determine this negation in them, just as they have causes and conditions which determine their positive qualities; and in this sense there is no difference between positive and negative attributes, and the necessity of the necessary existent is a necessary attribute of the causeless and there is no difference between saying ‘the necessary existent’ or ‘the causeless’.

And the nonsense comes from those who talk like Ghazali, not from his opponents.

And the summary of Ghazali’s second objection is that to say, as the philosophers do, that the specific difference through which the necessary existent is distinguished is either a condition or not, that in the former case the one necessary existent cannot be distinguished from the other in so far as they are necessarily existent and that therefore the necessary existent is one, and that in the latter case the necessary existent has no specific difference through which it can be divided: that to speak like this is like saying that if there exist more colours than one of the genus colour, the difference through which one colour is distinguished from another is either a condition for the existence of colour or not; that in the former case the one cannot be distinguished from the other in so far as they are colour, and colour is therefore one single nature; that in the latter case, if neither of them is a condition for the existence of colouredness, one colour has no specific difference through which it can be distinguished from another, and this is not true. ‘

Ghazali says, answering this problem on behalf of the philosophers:

It may be said perhaps: This is possible in the case of colour, for it has an existence related to the quiddity and additional to the quiddity, but it is not possible for the necessary existent, for it possesses only necessary existence, and there is therefore no quiddity to which its existence might be related, and just as the specific differences of black and red are not conditions for colouredness being colouredness, but only a condition for the actual realization of colour through a cause, , in the same way the specific difference cannot be a condition for necessary existence, for necessary existence is in relation to the First what colouredness is in relation to the colour, and
not like the existence brought in relation to colouredness.

But we reply, we do not accept this; on the contrary, the necessary existent has a real essence to which existence is attributed, as we shall show in the next discussion, and their statement that the First is an existence without quiddity is incomprehensible.

The trend of their argument is, in short, that they base their denial of dualism on the denial that the First is composed of the generic and the specific, then they base the denial of this on their denial that there is a quiddity behind the existence. Therefore as soon as we have refuted this last proposition, which is their fundamental principle, their whole structure (which is a very shaky fabrication, just like a spider’s web) tumbles down.

I say:

Ghazali builds the answer he gives here in the name of the philosophers on their statement that existence is an accident in the existent, i.e. the quiddity, and he objects against them that the existence in everything is something different from the essence, and he affirms that their whole argument is built only on this.  

But the distinction which the philosophers make here does not save them from the implication held against them about colouredness and its specific differences, in whatever way they may turn the question. Indeed, nobody doubts that the specific differences of the genus are the cause of the genus, whether it is assumed that the existence of the genus is different from its essence, or that the essence and existence of the genus are identical; for if the specific differences were differences in the existence, and the existence of the colour were different from the quiddity of the colour, it would follow that the specific differences by which the colour is divided are not differences in the quiddity of the colour, but differences in one of its accidents, and this is an absurd assumption. Therefore the truth is to say, ‘When we divide colour by its specific differences, the existence of the colour in so far as it is colour is only actual, either because it is white, or because it is black or any other colour. Thus we do not divide an accident of the colour, but we divide only the essence of the colour. Through this solution the statement that existence is an accident in the existent is seen to be false, and the argument and his answer arc unsound.

As to Ghazali’s words:

They base their denial of dualism on the denial that the First is composed of the generic and the specific, then they base the denial of this on the denial that there is a quiddity behind the existence. Therefore as soon as we have refuted this last proposition, which is their fundamental principle, their whole structure tumbles down.

I say:

This argument is not sound, for their structure, the denial of individual duality attributed to simple things univocally, is self-evident, for if we assume a duality and two simple things possessing a common trait, the simple becomes a compounds And the summary of the philosophical proof for this is that the nature called ‘necessary existent’, i.e. the cause which has no cause and which is a cause for other things, must be either numerically one or many; if many, it must be many through its form, one through the genus predicated univocally of it, or one through a relation, or one through the term only. b If it is like Zaid and Amr individually differentiated and specifically one, then it necessarily possesses hyle, and this is impossible. If it is differentiated through its form, but one through the genus predicated univocally of it, then it is necessarily composite. If it is only common through the term, then there is no objection to its being more than one, and this is the case with the four primary causes, i.e. the first agent, the ultimate form, the ultimate end, the ultimate matter.  

Therefore, no strict proof is attained through this method, and one does not arrive at the First Principle as Avicenna thought; nor to its being necessarily one.

Ghazali says:

The second way is the drawing of the consequence, and we say: If existence, substantiality and being a principle are not a genus, because they do not give an answer to the question ‘What is it?’, then according to you the First is pure intellect just like the other intellects which are the principles of existence, called angels, according to the philosophers, and which are the effects of the First, are intellects
separate from matter. And this abstract reality comprises the First and the first effect. This First, further, is according to the philosophers simple, and there is no compound in its essence except through its necessary attributes, and both the First Cause and the first effect participate in being intellect without matter. This, however, is a generic reality. Nor is intellectuality, separate from matter, a necessary attribute, for it is indeed a quiddity, and this quiddity is common to the First and all the other intellects. Therefore, if they do not differ in anything else, you have necessarily conceived a duality without a further difference; and if they do differ, what then is this distinction apart from their intellectuality, which they have in common? For what they have in common is participation in this abstract reality. For indeed the First is conscious of its own self and of others, according to those who believe that it is in its essence intellect separate from matter; and also the first effect, which is the first intellect which God has created without a mediator, participates in this characteristic. This proves that the intellects which are effects are different species, that they only participate in intellectuality and are besides this distinguished by specific differences, and that likewise the First participates with all the other intellects in this intellectuality. The philosophers, therefore, are either in plain contradiction to their own fundamental thesis, or have to affirm that intellectuality does not constitute God’s essence. And both positions are absurd according to them.

I say:

If you have understood what we have said before this, that there are things which have a term in common not univocally or equivocally, but by the universality of terms analogically related to one thing, and that the characteristic of these things is that they lead upwards to a first term in this genus which is the first cause of everything to which this word refers, like warmth, which is predicated of fire and all other warm things, and like the term ‘existent’ which is predicated of the substance and all other accidents, and like the term ‘movement’ predicated of motion in space and all the other movements, you will not have to occupy yourself with the mistakes in this reasoning. For the term ‘intellect’ is predicated analogically of the separate intellects according to the philosophers, and there is among them a first intellect which is the cause of all the other intellects, and the same thing is true of substance. And the proof that they have not one nature in common is that some of them are the causes of others and the cause of a thing is prior to the effect, and the nature of cause and effect cannot be one in genus except in the individual causes, and this kind of community is contradictory to genuine generic community, for things which participate in genus have no first principle which is the cause of all the others-they are all of the same rank, and there is no simple principle in them-whereas the things which participate in something predicated of them analogically must have a simple first principle. And in this First no duality can be imagined, for if a second were assumed, it must be of the same level of existence and of the same nature as the First, and they would have one nature in common in which they would participate by generic participation and would have to be distinguished through specific differences, additional to the genus, and both would be composed of genus and specific difference, and everything which is of this description is temporal; and lastly that which is of the extreme perfection i of existence must be unique, for if it were not unique, it could not be of the extreme perfection of existence, for that which is in the extreme degree cannot participate with anything else, for in the same way as one single line cannot have two extreme points at the same end, things extended in existence and differentiated through increases and decreases have not two extremes at the same side. And since Avicenna was not aware of this nature, which stands midway between the nature of that which is univocally predicated and those natures which participate only through the equivocation of the term or in a distant, accidental way, this objection was valid against him.

THE EIGHTH DISCUSSION

TO REFUTE THEIR THEORY THAT THE EXISTENCE OF THE FIRST IS SIMPLE, NAMELY THAT IT IS PURE EXISTENCE AND THAT ITS EXISTENCE STANDS IN RELATION TO NO QUIDDITY AND TO NO ESSENCE, BUT
STANDS TO NECESSARY EXISTENCE AS DO OTHER BEINGS TO THEIR QUIDDITY

Ghazali says:

There are two ways of attacking this theory. The first is to demand a proof and to ask how you know this, through the necessity of the intellect, or through speculation and not by immediate necessity; and in any case you must tell us your method of reasoning.

If it is said that, if the First had a quiddity, its existence would be related to it, and would be consequent on this quiddity and would be its necessary attribute, and the consequent is an effect and therefore necessary existence would be an effect, and this is a contradiction, we answer: This is to revert to the source of the confusion in the application of the term ‘necessary existence’, for we call this entity ‘reality’ or ‘quiddity’ and this reality exists, i.e. it is not non-existent and is not denied, but its existence is brought into a relation with it, and if you like to call this ‘consequent’ and ‘necessary attribute’, we shall not quibble about words, if you have once acknowledged that it has no agent for its existence and that this existence has not ceased to be eternal and to have no efficient cause; if, however, you understand by ‘consequent’ and ‘effect’ that it has an efficient cause, this is not true. But if you mean something else, this is conceded, for it is not impossible, since the demonstration proves only the end of a causal series and its ending in an existent reality; a positive quiddity, therefore, is possible, and there is no need to deny the quiddity.

If it is said: Then the quiddity becomes a cause for the existence which is consequent on it, and the existence becomes an effect and an object of the act, we answer: The quiddity in temporal things is not a cause of their existence, and why should it therefore be the case in the eternal, if you mean by ‘cause’ the agent? But if you mean something else by it, namely that without which it could not be, let that be accepted, for there is nothing impossible in it; the impossibility lies only in the infinite causal series, and if this series only comes to a final term, then the impossibility is cancelled; impossibility can be understood only on this point, therefore you must give a proof of its impossibility.

All the proofs of the philosophers are nothing but presumptions that the term has a sense from which certain consequences follow, and nothing but the supposition that demonstration has in fact proved a necessary existent with the meaning the philosophers ascribed to it. We have, however, shown previously that this is not true. In short, this proof of the philosophers comes down to the proof of the denial of attributes and of the division into genus and specific difference; only this proof is still more ambiguous and weak, for this plurality is purely verbal, for the intellect does allow the acceptance of one single existent quiddity. The philosophers, however, say that every existent quiddity is a plurality, for it contains quiddity and existence, and this is an extreme confusion; for the meaning of a single existent is perfectly understandable—nothing exists which has no essence, and the existence of an essence does not annul its singleness.

I say:

Ghazali does not relate Avicenna’s doctrine literally as he did in his book *The Aims of the Philosophers*. For since Avicenna believed that the existence of a thing indicated an attribute additional to its essence, he could no longer admit that its essence was the agent of its existence out of the possibles, for then the thing would be the cause of its own existence and it would not have an agent. It follows from this, according to Avicenna, that everything which has an existence additional to its essence has an efficient cause, and since according to Avicenna the First has no agent, it follows necessarily that its existence is identical with its essence. And therefore Ghazali’s objection that Avicenna assimilates existence to a necessary attribute of the essence is not true, because the essence of a thing is the cause of its necessary attribute and it is not possible that a thing should be the cause of its own existence, because the existence of a thing is prior to its quiddity. To identify the quiddity and the existence of a thing is not to do away with its quiddity, as Ghazali asserts, but is only the
affirmation of the unity of quiddity and existence. If we regard existence as an accidental attribute of the existent, and it is the agent which gives possible things their existence, necessarily that which has no agent either cannot have an existence (and this is absurd), or its existence must be identical with its essence.

But the whole of this discussion is built on the mistake that the existence of a thing is one of its attributes. For the existence which in our knowledge is prior to the quiddity of a thing is that which signifies the true. Therefore the question whether a thing exists, either (i) refers to that which has a cause that determines its existence, and in that case its potential meaning is to ask whether this thing has a cause or not, according to Aristotle at the beginning of the second chapter of the Posterior Analytics; or (2) it refers to that which has no cause, and then its meaning is to ask whether a thing possesses a necessary attribute which determines its existence. ‘And when by ‘existent’ is meant what is understood by ‘thing’ and ‘entity’, it follows the rule of the genus which is predicated analogically, and whatever it is in this sense is attributed in the same way to that which has a cause and to that which has none, and it does not signify anything but the concept of the existent, and by this is meant ‘the true’, and if it means something additional to the essence, it is only in a subjective sense which does not exist outside the soul except potentially, as is also the case with the universal. And this is the way in which the ancient philosophers considered the First Principle, and they regarded it as a simple existent. As to the later philosophers in Islam, they stated that, in their speculation about the nature of the existent qua existent, they were led to accept a simple existent of this description.

The best method to follow, in my opinion, and the nearest to strict proof, is to say that the actualization of existents which have in their substance a possible existence necessarily occurs only through an actualizer which is in act, i.e. acting, and moves them and draws them out of potency into act. And if this actualizer itself is also of the nature of the possible, i.e. possible in its substance, there will have to be another actualizer for it, necessary in its substance and not possible, so that this sublunary world may be conserved, and the nature of the possible causes may remain everlastingly, proceeding without end. And if these causes exist without end, as appears from their nature, and each of them is possible, necessarily their cause, i.e. that which determines their permanence, must be something necessary in its substance, and if there were a moment in which nothing was moved at all, there would be no possibility of an origination of movements. The nexus between temporal existence and eternal can only take place without a change affecting the First through that movement which is partly eternal, partly temporal. And the thing moved by this movement is what Avicenna calls ‘the existence necessary through another’, and this ‘necessary through another’ must be a body everlastingly moved, and in this way it is possible that the essentially temporal and corruptible should exist in dependence on the eternal, and this through approach to something and through recession from it, as you observe it happen to transitory existents in relation to the heavenly bodies. ? And since this moved body is necessary in its substance, possible in its local movement, it is necessary that the process should terminate in an absolutely necessary existent in which there is no potency at all, either in its substance, or locally or in any of the other forms of movement; and that which is of this description is necessarily simple, because if it were a compound, it would be possible, not necessary, and it would require a necessary existent. And this method of proving it is in my opinion sufficient, and it is true.

However, what Avicenna adds to this proof by saying that the possible existent must terminate either in an existent necessary through another or in an existent necessary through itself, and in the former case that the necessary through another should be a consequence of the existent necessary through itself, for he affirms that the existent necessary through another is in itself a possible existent and what is possible needs something necessary—this addition, is to my mind superfluous and erroneous, for in the necessary, in whatever way you suppose it, there is no possibility whatsoever and there exists nothing of a single nature of which it can be said that it is in one way possible and in another way necessary in its existence. ‘For the philosophers have proved that there is no possible whatever in the necessary; for the possible is the opposite of the necessary, and the only thing that can happen is that a thing should be in one way necessary, in another way possible, as they believed for instance to be the case with the heavenly body or what is above the body of the heavens, namely that it was necessary through its substance and possible in its movement and in space. What led Avicenna to this division was that he believed that the body of the heavens was essentially necessary.
through another, possible by itself, and we have shown in another place that this is not true. And the proof which Avicenna uses in dealing with the necessary existent, when this distinction and this indication are not made, is of the type of common dialectical notions; when, however, the distinction is made, it is of the type of demonstrative proof.

You must know further that the becoming of which the Holy Law speaks is of the kind of empirical becoming in this world, and this occurs in the forms of the existents which the Ash’arites call mental qualities and the philosophers call forms, and this becoming occurs only through another thing and in time, and the Holy Words: ‘Have not those who have disbelieved considered that the heavens and the earth were coherent, and we have rent them . . . ‘ and the Divine Words ‘then he straightened himself up to the sky which was smoke . . . ’, refer to this. But as to the relation which exists between the nature of the possible existent and the necessary existent, about this the Holy Law is silent, because it is too much above the understanding of the common man and knowledge of it is not necessary for his blessedness. When the Ash’arites affirm that the nature of the possible’ is created and has come into existence in time out of nothing (a notion which all the philosophers oppose, whether they believe in the temporal beginning of the world or not), they do not say this, if you consider the question rightly, on the authority of the law of Islam, and there is no proof for it. What appears from the Holy Law is the commandment to abstain from investigating that about which the Holy Law is silent, and therefore it is said in the Traditions: ‘The people did not cease thinking till they said: God has created this, but who has created God? And the Prophet said: When one of you finds this, this is an act of pure faith’, and in another version: ‘When one of you finds this, let him read the verse of the Qur’an: Say, He, God is one. And know that for the masses to turn to such a question comes from the whisperings of Satan and therefore the prophet said: This is an act of pure faith.

Ghazali says:

The second way is to say that an existence without quiddity or essence cannot be conceived, and just as mere non-existence, without a relation to an existent the non-existence of which can be supposed, cannot be conceived, in the same way existence can be only conceived in relation to a definite essence, especially when it is defined as a single essence; for how could it be defined as single, conceptually differentiated from others, if it had not a real essence? For to deny the quiddity is to deny the real essence, and when you deny the real essence of the existent, the existent can no longer be understood. It is as if the philosophers affirmed at the same time existence and a non-existent, which is contradictory. This is shown by the fact that, if it were conceivable, it would be also possible in the effects that there should be an existence without an essence, participating with the First in not having a real essence and a quiddity, differing from it in having a cause, whereas the First is causeless. And why should such an effect not be imagined? And is there any other reason for this than that it is inconceivable in itself? But what is inconceivable in itself does not become conceivable by the denial of its cause, nor does what is conceivable become inconceivable because it is supposed to have a cause. Such an extreme negation is the most obscure of their theories, although they believe indeed that they have proved what they say. Their doctrine ends in absolute negation, and indeed the denial of the quiddity is the denial of the real essence, and through the denial of this reality nothing remains but the word ‘existence’, which has no object at all when it is not related to a quiddity.

And if it is said: ‘Its real essence is that it is the necessary, and the necessary is its quiddity’, we answer: ‘The only sense of “necessary” is “causeless”, and this is a negation which does not constitute a real essence; and the denial of a cause for the real essence presupposes the real essence, and therefore let the essence be conceivable, so that it can be described as being causeless; but the essence cannot be represented as non-existent, since “necessity” has no other meaning than “being causeless”.’ Besides, if the necessity were added to the existence, this would form a plurality; and if it is not added, how then could it be the quiddity? For the existence is not the quiddity, and thus what is not added to the existence cannot be the quiddity either. “

I say:
This whole paragraph is sophistry. For the philosophers do not assume that the First has an existence without a quiddity and a quiddity without an existence. They believe only that the existence in the compound is an additional attribute to its essence and it only acquires this attribute through the agent, and they believe that in that which is simple and causeless this attribute is not additional to the quiddity and that it has no quiddity differentiated from its existence; but they do not say that it has absolutely no quiddity, as he assumes in his objection against them.

Having assumed that they deny the quiddity—which is false Ghazali begins now to charge them with reprehensible theories and says:

If this were conceivable it would also be possible in the effects that there should be an existence without an essence, participating with the First in not having a real essence.

I say:

But the philosophers do not assume an existent absolutely without a quiddity: they only assume that it has not a quiddity like the quiddities of the other existents; and this is one of the sophistical fallacies, for the term ‘quiddity’ is ambiguous, and this assumption, and everything built upon it, is a sophistical argument, for the non-existent cannot be described either by denying or by affirming something of it. And Ghazali, by fallacies of the kind perpetrated in this book, is not exempt from wickedness or from ignorance, and he seems nearer to wickedness than to ignorance—or should we say that there is a necessity which obliged him to do this?

And as to his remark, that the meaning of ‘necessary existent’ is ‘causeless’, this is not true, but our expression that it is a necessary existent has a positive meaning, consequent on a nature which has absolutely no cause, no exterior agent, and no agent which is part of it.

And as to Ghazali’s words:

If the necessity were added to the existence, this would form a plurality; and if it is not added, how then could it be the quiddity? For existence is not the quiddity, and thus what is not added to the existence cannot be the quiddity either.

I say:

According to the philosophers necessity is not an attribute added to the essence, and it is predicated of the essence in the same way as we say of it that it is inevitable and eternal. ‘And likewise if we understand by ‘existence’ a mental attribute, it is not an addition to the essence, but if we understand it as being an accident, in the way Avicenna regards it in the composite existent, then it becomes difficult to explain how the uncompounded can be the quiddity itself, although one might say perhaps: ‘In the way the knowledge in the uncompounded becomes the knower himself. ‘ If, however, one regards the existent as the true, all these doubts lose their meaning, and likewise, if one understands ‘existent’ as having the same sense as ‘entity’, and according to this it is true that the existence in the uncompounded is the quiddity itself.

---

**THE NINTH DISCUSSION**

**TO REFUTE THEIR PROOF THAT THE FIRST IS INCORPOREAL**

Ghazali says:

There is a proof only for him who believes that body is only temporal, because it cannot be exempt from what is temporal and everything that is temporal needs a creator. But you, when you admit an eternal body which has no beginning for its existence, although it is not exempt from temporal occurrences, why do you regard it as impossible that the First should be a body, either the sun, or the extreme heaven, or something else?

If the answer is made ‘Because body must be composite and divisible into parts quantitatively, and into matter and form conceptually, and into qualities which characterize it necessarily so that it can be differentiated from other bodies (for otherwise all bodies in being body would be similar) and the necessary existent is one and cannot be divided in any of these ways’ we answer: ‘We have already refuted you
in this, and have shown that you have no proof for it except that a collection is an effect, since some of its parts require others, and we have argued against it and have shown that when it is not impossible to suppose an existent without a creator, it is not impossible to suppose a compound without a composing principle and to suppose many existents without a creator, since you have based your denial of plurality and duality on the denial of composition and your denial of composition on the denial of a quiddity distinct from existence, and with respect to the last principle we have asked for its foundation and we have shown that it is a mere presumption.

And if it is said: ‘If a body has no soul, it cannot be an agent, and when it has a soul, well, then its soul is its cause, and then body cannot be the First’, we answer: ‘Our soul is not the cause of the existence of our body, nor is the soul of the sphere in itself a cause of its body, according to you, but they are two, having a distinct cause; and if they can be eternal, it is possible that they have no cause.’

And if the question is asked, ‘How can the conjunction of soul and body come about?’, we answer, ‘One might as well ask how the existence of the First comes about; the answer is that such a question may be asked about what is temporal, but about what is eternally existent one cannot ask how it has come about, and therefore’ since body and its soul are both eternally existent, it is not impossible that their compound should be a creator.

I say:
When a man has no other proof that the First is not body than that he believes that all bodies are temporal, how weak is his proof, and how far distant from the nature of what has to be proved!-since it has been shown previously that the proofs on which the theologians build their statement that all bodies are temporal are conflicting; and what is more appropriate than to regard an eternal composite as possible, as I said in this book when speaking of the Ash’arites, i.e. in saying that according to them an eternal body is possible, since in the accidents there is some eternal element, according to their own theory, for instance, the characteristic of forming a compound; and therefore their proof that all bodies are temporal is not valid, because they base it exclusively on the temporal becoming of the accidents. ‘The ancient philosophers do not allow for the existence of a body eternal through itself, but only of one eternal through another, and therefore according to them there must be an existent eternal through itself through which the eternal body becomes eternal. But if we expound their theories here, they have only a dialectical value, and you should therefore instead ask for their proofs in their proper place.

And as to Ghazali’s refutation of this, and his words:
We answer: ‘We have already refuted you in this, and we have shown that you have no proof for this except that a collection is an effect, since some of its parts require others.

I say:
He means that he has discussed this already previously, and he says that the philosophers cannot prove that the existent necessary through itself is not a body, since the meaning of ‘existent necessary through itself’ is ‘that which has no efficient cause’, and why should they regard an eternal body which has no efficient cause as impossible-and especially when it should be supposed to be a simple body, indivisible quantitatively or qualitatively, and in short an eternal composite, without a composing principle? This is a sound argument from which they cannot escape except through dialectical arguments. z But all the arguments which Ghazali gives in this book either against or on behalf of the philosophers or against Avicenna are dialectical through the equivocation of the terms used, and therefore it is not necessary to expatiate on this.

And as to his answer on behalf of the Ash’arites that what is eternal through itself does not need a cause for its eternity, and that when the theologians assume something eternal through itself and assume its essence as the cause of its attributes, this essence does not become eternal because of something else,

I say:
It is a necessary consequence to be held up against Ghazali that the Eternal will be composed of a cause and an effect, and that the attributes will be eternal through their cause, i.e. the essence. And
since the effect is not a condition for its own existence, the Eternal is the cause. And let us say that the essence which exists by itself is God and that the attributes are effects; then it can be argued against the theologians that they assume one thing eternal by itself and a plurality of things eternal through another, and that the combination of all these is God. But this is exactly their objection against those who say that God is eternal through Himself and the world eternal through another, namely God. Besides, they say that the Eternal is one, and all this is extremely contradictory.

And as to Ghazali’s statement that to assume a compound without the factor which composes it, is not different from assuming an existent without a creator, and that the assumption either of a single existent of this description or of a plurality is not an impossible supposition for the mind, all this is erroneous. For composition does not demand a composing factor which again itself is composed, but there must be a series leading up to a composing factor composing by itself, just as, when the cause is an effect, there must finally be a cause which is not an effect. Nor is it possible, by means of an argument which leads to an existent without a creator, to prove the oneness of this existent.

And as to his assertion that the denial of the quiddity implies the denial of the composition, and that this implies the assertion of composition in the First, this is not true. And indeed the philosophers do not deny the quiddity of the First, but only deny that it has the kind of quiddity which is in the effects, and all this is a dialectical and doubtful argument. And already previously in this book we have given convincing arguments, according to the principles of the philosophers, to prove that the First is incorporeal, namely that the possible leads to a necessary existent and that the possible does not proceed from the necessary except through the mediation of an existent which is partly necessary, partly possible, and that this is the body of the heavens and its circular motion; and the most satisfactory way of expressing this according to the principles of the philosophers is to say that all bodies are finite in power, and that they only acquire their power of infinite movement through an incorporeal being.

Ghazali answering the objection which infers that according to the philosophers the agent is nothing but the sphere, composed of soul and body, says:

If it is answered: ‘This cannot be so, because body in so far as it is body does not create anything else and the soul which is attached to the body does not act except through the mediation of the body, but the body is not a means for the soul in the latter’s creating bodies or in causing the existence of souls and of things which are not related to bodies’, we answer: ‘And why is it not possible that there should be amongst the souls a soul which has the characteristic of being so disposed that both bodies and incorporeals are produced through it? The impossibility of this is not a thing known necessarily, nor is there a proof for it, except that we do not experience this in the bodies we observe; but the absence of experience does not demonstrate its impossibility, and indeed the philosophers often ascribe things to the First Existent which are not generally ascribed to existents, and are not experienced in any other existent, and the absence of its being observed in other things is not a proof of its impossibility in reference to the First Existent, and the same holds concerning the body and its soul.’

I say:

As to his assertion that bodies do not create bodies, if by ‘creating’ is understood producing, the reverse is true, for a body in the empirical world can only come into being through a body, , and an animated body only through an animated body, but the absolute body does not come into being at all, for, if it did, it would come into being from non-existence, not after non-existence. ‘Individual bodies only come into being out of individual bodies and through individual bodies, and this through the body’s being transferred from one name to another and from one definition to another, so that for instance the body of water changes into the body of fire, because out of the body of water is transferred the attribute through the transformation of which the name and definition of water is transferred to the name and definition of fire, and this happens necessarily through a body which is the agent, participating with the becoming body specifically or generically in either a univocal or an analogical ways and whether the individual special corporeality in the water is transformed into the individual special corporeality of the fire is a problem to be studied.

And as to Ghazali’s words:

But the body is not a means for the soul in the latter’s creating bodies or in causing
the existence of souls,

I say:

This is an argument which he builds on an opinion some of the philosophers hold, that the bestower of forms on inanimate bodies and of souls is a separate substance, either intellect or a separate soul, and that it is not possible that either an animated body or an inanimate body should supply this. And if this opinion is held and at the same time it is assumed that heaven is an animated body, it is no longer possible for heaven to supply any of the transitory forms, either the soul or any other of these forms. For the soul which is in the body only acts through the mediation of the body, and that which acts through the mediation of the body can produce neither form nor soul, since it is not of the nature of the body to produce a substantial form, either a soul or any other substantial form. And this theory resembles that of Plato about forms separate from matter, and is the in theory of Avicenna and others among the Muslim philosophers; their proof is that the body produces in the body only warmth or cold or moisture or dryness, and only these are acts of the heavenly bodies according to them. But that which produces the substantial forms, and especially those which are animated, is a separate substance which they call the giver of forms. But there are philosophers who believe the contrary and affirm that what produces the forms in the bodies is bodies possessing forms similar to them either specifically or generically, those similar specifically being the living bodies which produce the living bodies of the empirical world, like the animals which are generated from other animals, whereas those forms produced by forms generically similar, and which are not produced from a male or a female, receive their lives according to the philosophers from the heavenly bodies, since these are alive. And these philosophers have non-empirical proofs which, however, need not be mentioned here.

And therefore Ghazali argues against them in this way:

And why is it not possible that there should be among the souls a soul which has the characteristic of being so disposed that both bodies and incorporeals are produced through it?

I say:

He means: ‘Why should it not be possible that there should be among the souls in bodies souls which have the characteristic of generating other animate and inanimate forms?’ And how strange it is that Ghazali assumes that the production of body out of body does not happen in the empirical world, whereas nothing else is ever observed.

But you must understand that when the statements of the philosophers are abstracted from the demonstrative sciences they certainly become dialectical, whether they are generally acknowledged, or, if not, denied and regarded as strange. The reason is that demonstrative statements are only distinguished from statements which are not demonstrative, by being considered in the genus of science which is under investigation. Those statements which can be subsumed under the definition of this genus of science, or which comprise in their definition this genus of science, are demonstrative, and those statements which do not seem to fulfill these conditions are not demonstrative. Demonstration is only possible when the nature of this genus of science under investigation is defined, and the sense in which its essential predicates exist is distinguished from the sense in which they do not, and when this is retained in mind by keeping to that sense in every statement adopted in this science, and by having the identical meaning always present in the mind. And when the soul is convinced that the statement is essential to this genus or a necessary consequence of its essence, the statement is true; but when this relation does not enter into the mind, or when it is only weakly established, the statement is only an opinion, and is not evident. And therefore the difference between proof and convincing opinion is more delicate than the appearance of a hair and more completely hidden than the exact limit between darkness and light, especially in theological questions which are laid before the common people, because of the confusion between what is essential and what is accidental. Therefore we see that Ghazali, by relating the theories of the philosophers in this and others of his books and by showing them to people who have not studied their works with the necessary preparation the philosophers demand, changes the nature of the truth which exists in their theories or drives most people away from all their views. And by so doing he does more harm than good to the cause of truth. And God knows that I should not have related a single one of their views, or regarded this as permissible, but for the harm which results from Ghazali’s doings to the cause of wisdom; and I understand by ‘wisdom’ speculation about things according to the rules of the nature
Ghazali says, on behalf of the philosophers:

If it is said that the highest sphere, or the sun, or whatever body you may imagine, possesses a special size which may be increased or decreased, and this possible size needs for its differentiation a differentiating principle and can therefore not be the First, ‘we answer: By what argument will you refute the man who says that this body must have the size it possesses for the sake of the order of the universe, and this order could not exist if this body were smaller or larger—since you philosophers yourselves affirm that the first effect’ determines the size of the highest sphere because all sizes are equivalent in relation to the essence of the first effect, but certain sizes are determined for the sake of the order which depends on them and therefore the actual size is necessary and no other is possible; and all this holds just as well when no effect is assumed. Indeed, if the philosophers had established in the first effect, which is according to the philosophers the cause of the highest sphere, a specifying principle, as for instance the will, a further question might be put, since it might be asked why this principle willed this actual size rather than another, in the way the philosophers argued against the Muslims about their theory of the relation between the temporal world and the Eternal Will, an argument which we turned against them with respect to the problems of the determination of the direction of the heavenly movement and of the determination of the points of the poles. And if it is clear that they are forced to admit that a thing is differentiated from a similar one and that this happens through a cause, it is unessential whether this differentiation be regarded as possible without a cause or through a cause, for it is indifferent whether one puts the question about the thing itself and asks why it has such-and such a size, or whether one puts the question about the cause, and asks why it gave this thing this special size; and if the question about the cause may be answered by saying that this special measure is not like any other, because the order depends on it exclusively, the same answer may be made about the thing itself, and it will not need a cause. And there is no escape from this. For if the actual size which has been determined and has been realized were equivalent to the size which has not been realized, one might ask how one thing comes to be differentiated from a similar one, especially according to the principle of the philosophers who do not admit a differentiating will. If, however, there is no similar size, no possibility exists, and one must answer: ‘This has been so from all eternity, and in the same way therefore as, according to the philosophers, the eternal cause exists.’ And let the man who studies this question seek help from what we said about their asking about the eternal will, a question which we turned against them with respect to the points of the poles and the direction of the movement of the sphere. It is therefore clear that the man who does not believe in the temporal creation of the bodies cannot establish a proof that the First is incorporeal.

I say:
This indeed is a very strange argument of Ghazali’s. For he argues that they cannot prove another creator than the heavenly body, since they would have to give an answer by a principle in which they do not believe. For only the theologians accept this principle, since they say that heaven receives the determinate size it has, to the exclusion of other sizes it might have, from a differentiating cause, and that the differentiating principle must be eternal. He either attempted to deceive in this matter or was himself deceived. For the differentiation which the philosophers infer is different from that which the Ash‘arites intend, for the Ash‘arites understand by ‘differentiation’ the distinguishing of one thing either from a similar one or from an opposite one without this being determined by any wisdom in the thing itself which makes it necessary to differentiate one of the two opposite things. The philosophers, on the other hand, understand here by the differentiating principle only that which is determined by the wisdom in the product itself, namely the final cause, for according to them there is no quantity or quality in any being that has not an end based on wisdom, an end which must either be a necessity in the nature of the act of this being or exist in it, based on the principle of superiority. ‘For if, so the philosophers believe, there were in created things a quantity or quality not determined by wisdom, they would have attributed to the First Maker and Creator an attitude in relation to His work which
may be only attributed to the artisans among His creatures, with the intention of blaming them. For when one has observed a work with respect to its quantity and quality, and asked why the maker of this work chose this quantity or this quality to the exclusion of all other possible quantities and qualities, there is no worse mistake than to answer ‘Not because of the intrinsic wisdom and thoughtfulness in the product itself, but because he willed it, ‘ since according to this view all quantities and qualities are similar with respect to the end of this product, which in fact the maker produced for its own sake, namely for the sake of the act for whose purpose it exists. For indeed every product is produced in view of something in it which would not proceed from it, if this product had no definite quantity, quality and nature, although in some products an equivalent is possible. If any product whatever could determine any act whatever, there would exist no wisdom at all in any product, and there would be no art at all, and the quantities and qualities of the products would depend on the whim of the artisan and every man would be an artisan. Or should we rather say that wisdom exists only in the product of the creature, not in the act of the Creator? But God forbid that we should believe such a thing of the First Creator; on the contrary, we believe that everything in the world is wisdom, although in many things our understanding of it is very imperfect and although we understand the wisdom of the Creator only through the wisdom of nature. And if the world is one single product of extreme wisdom, there is one wise principle whose existence the heavens and the earth and everything in them need. Indeed, nobody can regard the product of such wonderful wisdom as caused by itself, and the theologians in their wish to elevate the Creator have denied Him wisdom and withheld from Him the noblest of His qualities.

THE TENTH DISCUSSION

TO PROVE THEIR INCAPACITY TO DEMONSTRATE THAT THE WORLD HAS A CREATOR AND A CAUSE, AND THAT IN FACT THEY ARE FORCED TO ADMIT ATHEISM

Ghazali says:

Their statement that body needs a creator and a cause can be understood from the theory of those’ who argue that all bodies are temporal, because they cannot exist without what is temporal. But what keeps you philosophers from the doctrine of the materialists, namely that the world is eternal in the condition in which it actually is, and that it has no cause and no creator, that there is only a cause for temporal events and that no body comes into existence and no body is annihilated, and that only forms and accidents come into existence, for the bodies are the heavens (which are eternal) and the four elements, which are the stuff of the sublunary world, and their bodies and matters are eternal too, and there is only a change of forms in them through mixtures and alterations ;and that the souls of men and animals and plants come into existence, that all the causes of these temporal events terminate in the circular movement, and that the circular movement is eternal and its source the eternal soul of the sphere. Therefore there is no cause for the world and no creator for its bodies, but since the world, as it is, is eternal, there is no cause for it, i. e. no cause for its bodies. For indeed, what sense is there in the doctrine of the philosophers that these bodies exist through a cause, although they are eternal?

I say:

The philosophers assert that the man who says that all bodies have been produced (and by ‘produced’ must be understood creation ex nihilo) gives a meaning to the term ‘produced’ which is never found in the empirical world, and his statement surely stands in need of a proof. As to his attacks on the philosophers in this passage, so that he even forces on them the implication of atheism, we have already answered them previously and there is no sense in repeating ourselves, but, in short, the philosophers hold that body, be it temporal or eternal, cannot be independent in existence through itself; and this principle is, according to the philosophers, binding for the eternal body in the same way as for the temporal, although imagination does not help to explain how this is the case with the
eternal body in the way it is with the temporal body. Aristotle therefore, in the second book of *De caelo et mundo*, when he wanted to explain the fact that the earth was circular by nature, first assumed it to have come into being in time so that the intellect might imagine its cause, and then transferred its existence to eternity.

Having forced on the philosophers these reprehensible deductions, Ghazali now gives an answer in defence of them and objects then to their answer.

Ghazali says:

And if the philosophers say: ‘Everything that has no cause is of a necessary existence, and we philosophers have already mentioned the qualities of the necessary existent through which it is proved that body cannot be the necessary existent, ‘we answer: We have shown the mistake in your claim about the attributes of the necessary existent, and that your proof does not demonstrate anything but the termination of a causal series, and this termination also exists for the materialists at the beginning of things, for they say that there is no cause for the bodies, and the forms and accidents are causes for each other and terminate in the circular movement part of which is the cause of another part in the same way as it takes place according to the doctrine of the philosophers, and this causal series’ ends in this circular movement.

And the man who observes what we have related will understand the inability of those who believe in the eternity of bodies to claim at the same time that they have a cause, and the consequence of their theory is atheism and apostasy, which one party has clearly admitted, those namely who rely solely on the determinations of the intellect.

I say:

All this has been already answered, and its degree of truth has been stated, and there is no reason to repeat ourselves. And as to the materialists, they rely only on the senses, and when according to them the movements had terminated in the heavenly body and through this the causal series was ended, they thought that where sensation had come to a limit, the intellect also had come to a limit; but this is not true. But the philosophers considered the causes till they ended in the heavenly body, then they considered the intelligible causes and arrived at an existent which cannot be perceived and which is the principle of perceptible being, and this is the meaning of the words: ‘Thus did we show Abraham the Kingdom of Heaven and of the earth . . . . ‘The Ash’arites, however, rejected sensible causes; that is, they denied that certain sensible things are the causes of other sensible things, and they made the cause of sensible being a nonsensible being by a way of becoming which is neither experienced nor perceived, and they denied causes and effects; and this is a kind of view which is inconsistent with the nature of man in so far as he is man.

Ghazali says, objecting to the argument of the philosophers:

If it is said that the proof that body is not a necessary existent is that, if it were a necessary existent, it would have neither an external nor an internal cause, but if it has a cause for its being composed, it will be possible in respect of its essence, and every possible needs a necessary existent, we answer: The terms ‘necessary existent’ and ‘possible existent’ are devoid of sense, and your whole confusion lies in these terms; but let us revert to their plain sense, which is the denial and the affirmation of a cause, for then your words amount to nothing else but saying that bodies either have a cause or not, and the materialists affirm the latter, ‘and why should you deny it? And when this is understood by ‘possibility’ and ‘necessity’, we say body is necessary and not possible, and your statement that body cannot be necessary is pure presumption without any foundation.

I say:

We have already said that if by ‘necessary existent’ is understood the causeless and by ‘possible existent’ is understood that which has a cause, the division of being into these two sections is not acknowledged, and opponents might say that this division is not true, but that, indeed, all existents are causeless. But when by ‘necessary existent’ is understood absolute necessary being and by ‘possible’ the genuinely possible, then we must arrive at a being which has no cause, for we can say that every being is either possible or necessary; if possible, it has a cause, and if this cause is of the nature of the possible, we have a series which ends in a necessary cause. Then, concerning this necessary cause it
may be asked again whether some necessary beings might have a cause and other necessary beings
none, and if a cause is ascribed to the nature of the necessary being which can have a cause, there will
follow a series which ends in a necessary being which has no cause. Avicenna wanted by this division
only to conform to the opinion of the philosophers concerning existents, for all philosophers agree
that the body of the heavens is necessary through something else; whether, however, this thing
necessary through another is possible by itself is a problem which has to be studied. And this
argument is therefore faulty when this method is followed, and this method is of necessity faulty,
because being is not primarily divided into the genuinely possible and the necessary, for this is a
division which is only known through the nature of existing things.

Then Ghazali answers the philosophers’ statement that body cannot be a necessary existent by
itself, because it has parts which are its cause.

If it is said: ‘It cannot be denied that body has parts, and that the whole is only
constituted through the parts, and that the parts in a thing are prior to the whole, ‘ we
answer: ‘Let it be so; certainly, the whole is constituted by the parts and their
aggregation, but there is no cause for the parts nor for their aggregation, which on the
contrary are eternally in the condition in which they are without an efficient cause. ‘
And the philosophers cannot refute this, except by the argument of theirs which we
have mentioned, which is based on the denial of plurality in the First; we have shown
its futility, and apart from it there is no other method. It is therefore clear that for the
man who does not believe in the temporal creation of bodies there is no foundation for
believing in a creator at all.

I say:

This argument is, without doubt, binding for the man who follows the method of a necessary
existent to prove the existence of an incorporeal being, but this is not the method followed by the
ancient philosophers, and the first, so far as we know, who used it was Avicenna. He said that it was
superior to the proof of the ancients, because the ancients arrived only at an immaterial being, the
principle of the universe, through derivative things, namely motion and time; whereas this proof,
according to Avicenna, arrives at the assertion of such a principle as the ancients established, through
the investigation of the nature of the existent in so far as it is an existent. If indeed it did arrive at such
an affirmation, what Avicenna says would be true; however, it does not. ‘ For the most that could be
affirmed of the existent necessarily existing by itself would be that it is not composed of matter and
form, and generally speaking that it has no definition. But if it is supposed to exist as composed of
eternal parts which are continuous by nature, as is the case with the world and its parts, it may indeed
be said of the world with its parts that it is a necessary existent, z it being of course understood that
there is a necessary existent. And we have already said that the method Avicenna followed to
establish an existent of this description is not demonstrative and does not by nature lead to it, except
in the way we have stated. The utmost consequence of this argument-and this constitutes its
weakness-is the theory of those, namely the Peripatetics, who assume that there exists a simple body
not composed of matter and form. For the man who assumes an eternal compound of actual parts
must necessarily acknowledge that it is essentially one, and every oneness in a compound is one
through an essential unity, namely a simple, and through this unity the world becomes one, and
therefore Alexander of Aphrodisias says that there must exist a spiritual force which is diffused in all
the parts of the universe in the same way as there is a force in all the parts of a single animal which
binds them together, and the difference between the two forces is that the binding force in the world is
eternal, because the conjoining principle is eternal, whereas the conjunction between the parts of the
sublunary animal is individually transitory-although, through the eternal conjunction, not specifically
transitory-since it cannot be individually imperishable like the world . z And through this theory the
Creator will be deprived of that very kind of perfection which nothing else can equal, as Aristotle
says in his book De animalibus. And we see nowadays that many of Avicenna’s followers because of
this aporia ascribe this opinion to him, and they say that he does not believe that there exists a
separate existence, and they assert that this can be seen from what he says about the necessary
existent in many passages, and that this is the view which he has laid down in his Oriental
Philosophy, and they say that he only called this book Oriental Philosophy’ because it is the doctrine
of the Orientals; for they believed that according to the Orientals divinity is located in the heavenly
bodies, as Avicenna himself had come to believe. However, notwithstanding this they accept
Aristotle’s argument to prove the First Principle through movement.

And as for ourselves, we have discussed this argument at other times and have shown in what sense it can be regarded as evident, and we have solved all the doubts concerning it; we have also discussed Alexander’s argument on this question, namely the one he uses in his book called On the Principles. For Alexander imagined that he was turning from Aristotle’s argument to another; his argument, however, is taken from the principles which Aristotle proved, and both arguments are sound, though the more usual is Aristotle’s.

And when the argument for a necessary existent is verified, it is true according to me in the way I shall describe it, although it is used too generally and its different senses must be distinguished. It must, namely, be preceded by knowledge of the different kinds of possible existents in substance and the different kinds of necessary existents in substance. And then this argument takes this form: The possible existent in bodily substance must be preceded by the necessary existent in bodily substance, and the necessary existent in bodily substance must be preceded by the absolute necessary existent which does not possess any potency whatsoever, either in its substance or in any other of the different kinds of movements, and such an entity is not a body. For instance, it appears from the nature of the body of the heavens that it is a necessary existent in its bodily substance, for otherwise there would have to be a body prior to it, and it appears also from its nature that it is a possible existent in its local movement; it is therefore necessary that its mover should be a necessary existent in its substance, and that there should be in it no potency whatsoever, either as regards movement or in any other respect, and that neither movement nor rest could be ascribed to it nor any other kind of change, and such an entity is absolutely without body and without any potency in a body. But the eternal parts of the world are only necessary existents in their substance, either universally like the four elements, or individually like the heavenly bodies.

THE ELEVENTH DISCUSSION

TO SHOW THE INCAPACITY OF THOSE PHILOSOPHERS WHO BELIEVE THAT THE FIRST KNOWS OTHER THINGS BESIDE ITS OWN SELF AND THAT IT KNOWS THE GENERA AND THE SPECIES IN A UNIVERSAL WAY, TO PROVE THAT THIS IS SO

Ghazali says:

Since for the Muslims existence is confined to the temporal and the eternal, and there is for them nothing eternal except God and His attributes, and everything besides Him is temporally created by Him through His will, according to them the existent of necessity exists previously in His knowledge, for the object willed must be known by the willer. They deduced from this that the universe is known to Him, for the universe was willed by Him and produced by Him, and nothing comes into existence but what is produced through His will, and nothing is everlasting but His essence alone. And when once it was established that God wills and knows what He wills, He must be necessarily living, and every living being is conscious of its own self, and He is the most capable of knowing Himself. Therefore the whole universe is known to God, and they understood this through this argument, since they had found that He willed everything that happens in the world.

I say:

He says this only as an introduction and preparation for the comparison between his theory and that of the philosophers about eternal knowledge, because his theory seems at first sight more satisfactory than that of the philosophers. But when the theory of the theologians is tested, and shown up to him for whom such an exposure is necessary, it becomes clear that they only made God an eternal man, for they compared the world with the products of art wrought by the will and knowledge and power of man. And when it was objected against them that He must then have a body, they answered that He is eternal and that all bodies are temporal. They were therefore forced to admit an immaterial man who produces all existents. But this theory is nothing but a metaphor and a poetical expression; and metaphorical
expressions are certainly very convincing, till they are explored, but then their deficiency becomes
evident. For indeed there is no nature more distant from that of the transitory than that of the eternal.
And if this is true, it cannot be that there should exist one single species which is differentiated by
eternity and non-eternity as one single genus is differentiated through the various differences into
which it is divided. For the distance between the eternal and the temporal is far greater than that
between the different species which participate in temporality. And if the distance between eternity
and non-eternity is greater than that between the various species, how then is it possible to apply a
judgement about the empirical world to the invisible; for those two are opposite extremes? And when
you have understood the sense of the attributes which exist in the visible world and those which exist
in the invisible world, it will be clear to you that through the ambiguity of the terms they are so
equivocal that they do not permit a transference from the visible to the invisible.

Life, for instance, added to the intellect of man only applies to the potentiality of motion in space
through will and sense-perception, but senses are impossible for the Creator and still more
impossible for Him is motion in space. But the theologians ascribe to the Creator the faculty of sense-
perception without sense-organs, and deny His movement absolutely. Therefore either they do not
ascibe life to the Creator in the sense it has in the animal and which is a condition for the existence of
knowledge in man, or they identify it with perception in the way the philosophers say that perception
and knowledge in the First are identical with life. Further, the meaning of ‘will’ in God is nothing but that every act proceeds from Him
in their essence, and it is impossible that there should be in the Creator a desire because of an
imperfection in His essence, which could be a cause of movement and action either in Himself or in
something different from Himself. And how could an eternal will be imagined which should be the
cause of an act occurring without an increase of the desire at the time of the act, or how could a will
and a desire be imagined which would be before, during, and after the act in the same state without
any change occurring to them? And again, desire (in so far as it is the cause of movement) and
movement are only found in body, and desire is only found in the animate body. Therefore according
to the philosophers the meaning of ‘will’ in God is nothing but that every act proceeds from Him
through knowledge, and knowledge in so far as it is knowledge is the knowledge of opposites, either
of which can proceed from Him. And the Knower is called excellent by the fact that there always
proceeds from Him the better of the opposites to the exclusion of the worse. Therefore the
philosophers say that three attributes are most appropriate to the Creator, namely that He has
knowledge, excellence, and power. And they say that His power is not inferior to His will, as is the
case with man.

All this is the theory of the philosophers on this problem and in the way we have stated it here with
its proofs, it is a persuasive not a demonstrative statement. It is for you to inquire about these
questions in the places where they are treated in the books of demonstration, if you are one of the
people of perfect eudaemonia, and if you are one of those who learn the arts the function of which is
proof. For the demonstrative arts are very much like the practical; for just as a man who is not a
craftsman cannot perform the function of craftsmanship, in the same way it is not possible for him
who has not learned the arts of demonstration to perform the function of demonstration which is
demonstration itself: indeed this is still more necessary for this art than for any other-and this is not
generally acknowledged in the case of this practice only because it is a mere act-and therefore such a
demonstration can proceed only from one who has learned the art. The kinds of statement, however,
are many, some demonstrative, others not, and since non-demonstrative statements can be adduced
without knowledge of the art, it was thought that this might be also the case with demonstrative
statements; but this is a great error. And therefore in the spheres of the demonstrative arts, no other
statement is possible but a technical statement which only the student of this art can bring, just as is
the case with the art of geometry. Nothing therefore of what we have said in this book is a technical
demonstrative proof; they are all non-technical statements, some of them having greater persuasion
than others, and it is in this spirit that what we have written here must be understood. So this book of
Ghazalı might be best given the name of the ‘Incoherence of both parties together’.

All this in my opinion is in excess of the Holy Law, and an inquiry into something not ordered by a
religious law because human power does not suffice for it. For not all knowledge about which the
Holy Law is silent needs to be explored and explained to the masses as being, according to
speculative thought, part of the dogmas of religion; for from this the greatest confusion arises. One
must not speak about those things concerning which the Holy Law is silent; the masses must learn that human understanding is not sufficient to treat these problems, and must not go beyond what the teaching of the Holy Law explains in its texts, since this is teaching in which all can participate and which suffices for the attainment of their happiness. And just as the physician investigates the measure of health which agrees most with the healthy for the preservation of their health, and with the sick for the curing of their illness, so the Lord of the Holy Law instructs the masses only in so far as is needed for their acquisition of happiness. And the same thing holds in respect of the facts of human behaviour, only the investigation of these facts in so far as the Holy Law is silent about them is more legitimate, especially when they are of the same genus as those about which the Law pronounces judgement. For this reason the lawyers disagree about this kind of facts; some of them, the Zahirites, deny the use of analogy, whereas others, the analogists, admit it, and this is absolutely the same thing as happens in the sphere of knowledge, only perhaps the Zahirites are happier in the purely intellectual sphere than in the practical.

And anyone amongst the two opposing parties who inquires after these questions must either belong to the followers of proof, i.e. the rationalists, or not; in the former case he will speak about them and base his statements on demonstration, he will know that this way of discussion is limited to the followers of proof, and he will know the places in which the Holy Law gives to the people who possess this kind of knowledge a hint about the conclusions to which demonstration leads; in the latter case he will be either a believer or an unbeliever: if he is a believer he will know that to discuss those questions is forbidden by the Holy Law, and if he is an unbeliever, it is not difficult for the followers of proof to refute him with the stringent proofs they possess. The rationalist must act in this way in every religion, but especially in our Divine Revelation, which although it is silent on certain intellectual problems nevertheless hints at the conclusions about them to which demonstration leads, without, however, mentioning these problems in its instruction of the masses.

Since this is established, we shall revert now to our subject, which is forced upon us by necessity—for otherwise, by God, the Knower, the Witness, the Revealer, we should not think it permissible to discuss such questions in this way. And Ghazali, having described the arguments through which the theologians prove the attribute of knowledge and other attributes, and shown that they are very evident because they are generally admitted and extremely easy to accept, begins to compare these arguments with those of the philosophers about these attributes, and this is an act of rhetoric.

Ghazali says, addressing the philosophers:

And you, philosophers, when you affirm that the world is eternal and not produced by God’s will, how do you know that He knows something beside His essence, for you require a proof of this?

Then Ghazali says:

And the summary of what Avicenna says to prove this in the course of his argument can be reduced to two heads: First, that the First does not exist in matter, and everything which does not exist in matter is pure intellect and all the intelligibles are revealed to it, for the obstacle to perceiving all things is attachment to matter and being occupied with matter, and the human soul is occupied by directing matter, i.e. its body, and when this occupation is terminated and it is not any longer defiled by the bodily passions and the despicable conditions which affect it through the things of nature, all the realities of the intelligibles are revealed to it, and therefore is it asserted that all the angels know all the intelligibles without exception, for they too are pure immaterial intellects.

And having related their theory; Ghazali argues against them:

But we say: If by your assertion that the First does not exist in matter, you mean that it is not a body, nor impressed on a body, but exists by itself not comprised by space nor locally specified by a direction, this is admitted by us. There remains then your answer to the question what its attribute is, namely that it is pure intellect—and what do you understand by ‘intellect’? If you mean by it that which thinks all the other things, this is just what we are trying to find out and the point under discussion, and how, therefore, can you take it as the premiss of a syllogism which must prove it? And if you mean by it something else, namely that it thinks its own self and some of your fellow-philosophers may concede this to you, but this amounts again to your saying
that what thinks its own self thinks other things also-the answer to be made is
‘Why do you claim this? For this is not known by necessity, and only Avicenna of all
the philosophers affirmed it; and how can you claim this as necessary knowledge, or, if
you know it by deduction, what is your proof? ‘

And if the assertion is made: ‘Because what prevents the perception of things is
matter, and the First is not matter’, we answer: We concede that matter is an
impediment, but we do not admit that it is the only impediment; and let them arrange
their syllogism in the figure of the hypothetical syllogism and say: ‘If this First is in
matter it cannot think things, but it is not in matter, therefore it thinks things’. ‘ And
this is the assumption as a minor premiss of the opposite of the antecedent, but such an
assumption does not lead to a conclusion in all cases, for it is like saying: ‘If this is a
man, it is an animal, but it is not a man, therefore it is not an animal’. But this is not a
necessary conclusion, for although not a man, it might be a horse, and therefore an
animal. The assumption as a minor premiss of the opposite of the antecedent is valid
only conditionally, as we have shown in our logic-namely, when the consequent is
universally convertible with the antecedent, as when the logicians say: ‘If the sun has
risen, it is day, but the sun has not risen, therefore it is not day’, for the only cause of
its being day is the fact that the sun has risen-an example in which antecedent and
consequent are convertible with each other-and the explanation of these theories and
terms can be understood from our book ‘The Touchstone of Knowledge’, which we
have written as an appendix to this book. If, however, they say ‘We claim that
antecedent and consequent are here convertible, and that the one and only obstacle to
thinking is being in matter’, we answer: ‘This is a pure presumption; where is your
proof? ‘

I say:
The first mistake he makes here is that, in relating the theory and the proof, he regards the premisses
he mentions as first principles, whereas for the philosophers they are conclusions from many
premisses. For the philosophers had seen that every sensible existent is composed of matter and form,
and that the form is the entity through which the existent becomes existent and that it is the form
which is designated by the name and the definitions and that the specific act proceeds from the form
in every existent, and it is this act which shows the existence of the forms in the existent. b For they
had found that in substances there are active potencies, particular to every single existent, and passive
potencies, either particular or common, c and that a thing cannot be passive by reason of the same
thing as it is active; for activity is the opposite of passivity, and opposites do not admit each other,
and it is only their substratum which admits them successively, e. g. hotness does not accept coldness,
it is simply the hot body that accepts coldness by divesting itself of hotness and accepting coldness,
and vice versa. Now when the philosophers found that this was the case with activity and passivity,
they understood that all existents of this description were composed of two substances, a substance
which is the act and a substance which is the potency, and they realized that the substance in act is the
perfection of the substance in potency and that the substance in act stands in relation to the substance
in potency as if it were the end of its actualization, for there is no actual difference between them. ‘
Then, when they looked through all the different forms of existents, they found that all these
substances must necessarily lead up to a substance in act which is absolutely devoid of matter, and
this substance must necessarily be active and cannot have any passivity and cannot be subject to
exhaustion, weariness, and decay; for such things occur to the substance in act only because it is the
perfection of the substance in potency, not because it is pure act. For since the substance in potency
only goes forth into act through a substance in act, the series of substances which are at the same time
both active and passive must terminate in a substance which is pure act, and the series must terminate
in that substance. And the proof of the existence of this substance, in so far as it is a mover and agent,
through essential particular premisses, can be found in the eighth book of Aristotle’s Physics.

Having established the existence of this substance by special and general arguments according to
what is known in their books, the philosophers now investigated the nature of the forms in matter
which produce motion, and they found some of them nearer to actuality and farther from potency
because they are less than others involved in passivity, which is the special sign of the matter which
exists in them. And they realized that that which among these forms is most destitute of matter is the
soul, and especially the intellect, so that they started to doubt whether the intellect belongs to the forms which are in matter or not.  But when they investigated the perceiving forms amongst the forms of the soul and found that they were free from matter, they understood that the cause of perception consists in freedom from matter,  and since they discovered that the intellect is without passivity they understood that the reason why one form is inorganic and another perceptive consists in the fact that when it is the perfection of a potency it is inorganic or not percipient,  and when it is pure perfection with which no potency is mixed it is intellect.  All this they proved in a demonstrative order and by natural deductions which cannot be reproduced here in this demonstrative sequence, for this would involve collecting in one place what by its nature is treated in many different books, and anyone who has the slightest experience of the science of logic will acknowledge that this is an impossibility. Through arguments of this kind they came to realize that what has no passivity whatever is intellect and not body, for what is passive is body which exists in matter according to them.

An objection against the philosophers in these questions ought to be made only against the first principles they use in the proof of these conclusions, not against those conclusions themselves, as it is made by Ghazali. Through this they came to understand that there exists here an existent which is pure intellect, and when they saw further that the order which reigns in nature and in the act of nature follows an intellectual plan very much like the plan of the craftsman, they realized that there must exist an intellect which causes these natural potencies to act in an intellectual way, and through these two points they received the conviction that this existent which is pure intellect is that which bestows on the existents the order and arrangement in their acts. And they understood from all this that its thinking its own self is identical with its thinking all existents, and that this existent is not such that its thinking its own self is something different from the thought by which it thinks other things, as is the case with the human intellect. And about this intellect the disjunction assumed as a premiss, that every intellect either thinks its own self or thinks something else or thinks both together, is not valid. For when this disjunction is admitted, what is said is: ‘If it thinks other things, it is self-evident that it must think its own self; however, if it thinks its own self, it is not at all necessary that it should think other things. ’ And we have discussed this previously.

And all the things which he says about the hypothetical syllogism which he formed in the figure he explained are not true. For the hypothetical syllogism is only valid when the minor and the legitimacy of the inference are proved through one or more categorical syllogisms. For correct hypothetical inference in this question is: ‘If what does not think is in matter, then what is not in matter thinks. ’ But, of course, first the truth of this conjunction and disjunction must be proved.  And these are the premisses of which we said that they are according to the philosophers conclusions, whereas Ghazali pretends they are first principles for them, or nearly so. And when it is explained as we have done, it is a syllogism of a legitimate figure and of true premisses. As to its legitimate form, the minor is the opposite of the consequent and the conclusion is the opposite of the antecedent, not as Ghazali believed, the minor the opposite of the antecedent and the conclusion the opposite of the consequent.  ‘ But since they are not first principles, nor generally acknowledged, nor evident at first sight, they are regarded, no doubt, by those who have never heard anything of these things as very much open to objection. But indeed Ghazali confused the sciences in a most terrible way, and he uprooted science from its foundation and its method.

Ghazali says:

The second argument is that the philosophers say: ‘Although we assert neither that the First wills temporal production nor that it produces the world in time by secondary intention, we nevertheless affirm that the First has made the world and that indeed the world has its existence through the First only, the First never losing its character as an agent and never ceasing to act; our theory only distinguishes itself from others in this point, in no way however with respect to the principle of the act. And since the agent must have knowledge in conformity with its act, the universe, according to us, exists through its act. ’

But there are two ways to answer this, of which the first is: ‘There are two kinds of action: voluntary, like the action of animal and man; and involuntary, like the action of the sun in producing light, of fire in producing heat, of water in producing cold. Now knowledge of the act is only necessary in voluntary acts, as in the human products of
art, not in the acts of nature. But according to you philosophers, God has made the world consequent on His essence by nature and by necessity, not through will and choice; indeed, the universe is consequent on His essence, as light is on the sun, and just as the sun has no power to check its light, nor fire to repress its producing heat, so the First cannot check its acts. Now this kind of occurrence, although it may be called an act, does not imply knowledge at all. ‘And if it is answered that there is a difference between the two things, in that the procession of the universe from God’s essence occurs through His knowledge of the universe and His representing the universal order in the course of the emanation of the universe, and He has no other cause than His knowledge of the universe, and His knowledge of the universe is identical with His essence, and if He had not this knowledge of the universe, the universe would not exist through Him, which is not the case with light in relation to the sun, we answer: ‘In this you are in contradiction to your fellow-philosophers, for they say that His essence is the essence from which the existence of the universe in its order follows naturally and necessarily, and it is not because He knows this. ‘And what is wrong with this conception, once you agree with them in denying His will? And since the sun’s knowledge of its light is no condition for its light, but its light is necessarily consequent on the sun, so let us accept this also in the case of the First; and nothing prevents this. ‘

I say:

In this section Ghazali begins by saying something reprehensible about the philosophers, namely that the Creator possesses a will neither with respect to the things produced nor with respect to the universe as a whole, because His act proceeds from His essence necessarily like the procession of light from the sun. Then he says of them that they say that through His acting He must have knowledge. The philosophers, however, do not deny the will of God, nor do they admit that He has a human will, for the human will implies a deficiency in the willer and a being affected by the object willed, and when the object is attained, the deficiency is completed and the passivity, which is called will, ceases. The philosophers only attribute a will to God in the sense that the acts which proceed from Him proceed through knowledge, and everything which proceeds through knowledge and wisdom proceeds through the will of the agent, not, however, necessarily and naturally, since the nature of knowledge does not imply (as he falsely affirms of the philosophers) the proceeding of the act. For if the nature of knowledge did imply this, then, when we say that God knows the opposites, it would be necessary that the opposites should proceed from Him together, and this is absurd. The fact that only one of the opposites proceeds from Him shows that there is another attribute present beside knowledge, namely will, and it is in this way that the affirmation of will in the First must be understood according to the philosophers. z For God, according to the philosophers, necessarily knows and wills through His knowledge. As to Ghazali’s assertion that the act can be subdivided into two, into a natural act and a voluntary act, this is false. God’s act according to the philosophers is in a certain way not natural, nor is it absolutely voluntary; it is voluntary without having the deficiency which is attached to the human will. Therefore the term ‘will’ is attributed to the Divine Will and the human in an equivocal way, just as the term ‘knowledge’ is attributed equivocally to eternal knowledge and to temporal. For the will in animals and man is a passivity which occurs to them through the object of desire and is caused by it. This is the meaning of ‘will’ in the case of the human will, but the Creator is too exalted to possess an attribute which should be an effect. Therefore by ‘will’ in God only the procession of the act joined to knowledge can be understood. And ‘knowledge’, as we said, refers to the two opposites, and in the knowledge of God there is knowledge of the opposites in a certain way, and His performing only the one shows that there exists in Him another attribute which is called ‘will’.

Ghazali says:

The second way of answering is to concede that the procession of a thing from the agent implies knowledge of the thing which proceeds. Now, according to them, the act of God is one, namely the effect which is pure intellect, and God can only know this effect. The first effect again will only know what proceeds from it. For the universe does not proceed from God immediately, but through mediators and derivation and a
series of consequences. For that which proceeds from what proceeds from Him need not be known to Him, and from Him Himself only one thing proceeds. And how should He know everything that proceeds mediately from Him? For this is not even necessary in voluntary acts, and how could it be necessary in natural acts? For the movement of a stone from the top of a mountain can occur through a voluntary propulsion which implies knowledge of the principle of motion, but does not imply knowledge of all the consequences which may occur through its knocking and breaking something. ‘And to this again the philosophers have no answer.

I answer:

The answer to this is that the Agent whose knowledge is of the highest perfection knows everything which proceeds from Him and which proceeds from that which proceeds from Him, and so from the first term to the last. And if the knowledge of the First is of the highest perfection, the First must know everything that proceeds from it either mediately or immediately, and its knowledge need not be of the same kind as our knowledge, for our knowledge is imperfect and posterior to the thing known.

Then Ghazali says, answering the objection he brought forward against the philosophers:

If, however, the philosophers should say: ‘If we declared that the First only knows its own self, this would be a very reprehensible doctrine, for all other beings know themselves and know the First, and would therefore be superior to it; and how can the effect be superior to the cause?’

I say:

This is an insufficient answer, for it opposes a rational argument with a moral one.

Then Ghazali answers this and says:

We should answer: ‘This reprehensible doctrine is a necessary consequence for those who follow the philosophers in denying the Divine Will and the production of the world, and one must either adhere to it as the other philosophers do, or abandon the philosophers and acknowledge that the world is produced through will.’

I say:

Ghazali means that if they belong to those who affirm that God knows His work, only to avoid the reprehensible doctrine that He does not know anything but His own self, they are forced to acknowledge this reprehensible doctrine just as well, since they affirmed another reprehensible doctrine, namely the eternity of the world and the denial of the Will. ‘However, the philosophers do not deny the Will, and only deny that part of it which implies a deficiency.

Then Ghazali says:

How will you refute those philosophers who say that this knowledge does not add to God’s dignity, since other beings need knowledge only in order to acquire perfection (for in their essence there is a deficiency) and man receives dignity through the intelligibles either that he may see his advantage in the coming events of this world and the next, or that his obscure and insufficient essence may be perfected, and likewise all the other creatures, but that the essence of God does not stand in need of perfection: nay, if a knowledge could be imagined through which He would be perfected, His essence, in so far as it is His essence, would be imperfect’

This is just the same kind of remark as your assertions, Avicenna, concerning His hearing and seeing and His knowing the particular beings which fall under the concept of time, for you agree with all the other philosophers in saying that God is too exalted for that, and that the changes which fall under the concept of time and which are divided into past and future events are not known to the First, since this would imply a change in its essence and a being influenced, and the denial of this does not imply an imperfection, but rather a perfection, and there is only an imperfection in the senses and the need for them. ‘If there were not this human imperfection, man would not be in need of the senses to guard himself against any change which might affect him. And in the same way you affirm that the knowledge of particular events is an imperfection. And if it is true that we can know all particular events and perceive all sensible things, whereas the First cannot know anything of the particulars nor perceive anything of sensible things without this implying any imperfection in the First, it may also be
permitted to ascribe to others knowledge of the intelligible universals but to deny it of the First without this implying any imperfection in the First. There is no way out of this.

I say:

This is the proof of those who say that the First knows only itself, and we have already spoken of the theory of those who combine the doctrine that the First knows only itself with the theory that it knows all existents; and for this reason some of the best known philosophers affirm that God the Creator is Himself all existents and that He grants them in His benevolence, and there is no sense in repeating ourselves. The premisses used in this section are common dialectical propositions, since they all belong to those which compare the Divine to the empirical, although no common genus unites these two spheres and they do not possess any common factor at all. In general his discussion in this section, when he argues with Avicenna, who adduces the argument of those philosophers who believe that God in knowing Himself must know other things, since He must necessarily know what proceeds from Himself, and all the other assertions of Avicenna to prove this, which he relates, and which he uses himself again to refute Avicenna, are all taken from human conditions which he tries to refer to the Creator; and this is false, since the terms of these two types of knowledge are predicated equivocally.

Avicenna’s assertion that any intelligent being from whom an act proceeds knows this act is a true proposition; not, however, in the sense in which the word ‘knowledge’ is used of the human intellect, when it understands a thing, for the human intellect is perfected by what it perceives and knows, and is affected by it, and the cause of action in man is the representation he forms in his intellect. And Ghazali argues against this kind of proposition by saying that when a man acts and there follows from his act another act and from the second act a third and from the third a fourth, it is not necessary that the conscious agent should know all the consequences which follow from his first act; and Ghazali says to his opponent this is a fact which concerns voluntary acts, but how is it when one assumes an agent whose acts are not voluntary? And he only says this because he means that the affirmation of God’s knowledge implies the affirmation of God’s will.

And therefore Ghazali says:

To this again the philosophers have no answer.

I say:

Ghazali means that it does not follow that the First according to Avicenna thinks anything but the act which proceeds from it primarily, and this act is the second cause and the first effect. Neither is there an answer to the other difficulty which he states that if the First thinks only itself and nothing else, man would be more noble than it. And the reason why Ghazali’s words carry a certain conviction is that if one imagines two men, one of whom thinks only his own self, whereas the other thinks his own self and other things besides, the latter intellect is regarded as superior to the former. However, as the term ‘intellect’ is applied to the human intellect and to this Divine Intellect in a purely equivocal way, since the latter is an agent and not a patient and the former a patient and not an agent, this analogy does not hold any longer.

Having given as Avicenna’s argument the maxim which Avicenna applies to every intelligent being, ‘that the more knowledge an intellect possesses the nobler it is, and having affirmed that, according to him (Ghazali), it is just the philosophers’ denial of God’s will and of temporal creation which forces them to deny to God a knowledge of anything but Himself, since the conscious agent knows his effect only in so far as it differs from himself by being an object of his will, he says that this reprehensible assertion, i. e. the assertion that the effect which is man must be nobler than the cause which is the Creator, is a consequence for the philosophers only, since as the philosophers deny the coming into being of the world, they deny the Divine Will, as he affirms, and as they deny the Divine Will, they deny that God knows what proceeds from Him. But all this, namely the denial of God’s will, has been shown previously not to be true; for they deny only His temporal will. And having repeated Avicenna’s arguments, which he regarded as being applicable both to the knowledge of the temporal and the knowledge of the eternal, he begins to argue against him, showing the distinction which the philosophers established on this point between these two sciences, and indeed this consequence is incumbent on Avicenna.

And Ghazali says:

How will you refute those philosophers who say that this knowledge does not add
to God’s dignity, for only other beings need knowledge. . . ?

I say:

The summary of this is that, if all these perceptions exist only because of man’s imperfection, then God is too exalted for them; and therefore Ghazali says to Avicenna: Just as you acknowledge with your fellow-philosophers that God’s not perceiving individual things is not a consequence of an imperfection in Him, for you have proved that the perception of individual things rests on an imperfection in the perceiver, in the same way the perception of other things than Himself need not derive from an imperfection in Him, since the perception of these other things depends on the imperfection of the perceiver. ‘

The answer to all this is that God’s knowledge cannot be divided into the opposites of true and false in which human knowledge is divided; for instance, it may be said of a man that either he knows or he does not know other things, because these two propositions are contradictory, and when the one is true the other is false; but in the case of God both propositions, that He knows what He knows and that He does not know it, are true, for He does not know it through a knowledge which determines an imperfection, namely human knowledge, but knows it through a knowledge which does not carry with it any imperfection, and this is a knowledge the quality of which nobody but God Himself can understand. And concerning both universals and individuals it is true of Him that He knows them and does not know them. This is the conclusion to which the principles of the ancient philosophers led; but those who make a distinction, and say that God knows universals but does not know particulars have not fully grasped their theory, and this is not a consequence of their principles. For all human sciences are passivities and impressions from the existents, and the existents operate on them. But the knowledge of the Creator operates on existents, and the existents receive the activities of His knowledge.

Once this is established, the whole quarrel between Ghazali and the philosophers comes to an end in regard to this chapter as well as the next two. We shall, however, give an account of these chapters and mention in them both what is particular to them and those arguments which have been already discussed above.

THE TWELFTH DISCUSSION

ABOUT THE IMPOTENCE OF THE PHILOSOPHERS TO PROVE THAT GOD KNOWS HIMSELF

Ghazali says:

We say that when the Muslims understood that the world was created through the will of God, they proved His knowledge from His will, then His life from His will and His knowledge together, ‘then from His life, according to the principle that every living being knows itself, they proved that He too must know His own essence, since He is alive. And this is a rational procedure of extreme force. For you philosophers, however, since you deny the divine will and the world’s coming into existence, and since you affirm that what proceeds from Him proceeds in a necessary and natural sequence, why should it be impossible that His essence should be of such a nature that only the first effect proceeded from it, and that then the second effect followed the first till the whole order of existents was completed, but, notwithstanding this, the First would not know itself, just as neither fire from which heat proceeds, nor the sun from which light proceeds, know themselves or anything else? For only that which knows itself knows what proceeds from itself, and therefore knows other things besides itself. And we have already shown that, according to the theory of the philosophers the First does not know other things, and we have forced those who do not agree with them on this point to acknowledge this consequence which follows from their assumption. And if it does not know others, it is not absurd to suppose that it does not know its own self.

If they say: ‘Everyone who does not know himself is dead, and how could the First be dead? ‘-we answer: ‘This is indeed a conclusion which follows from your theory, since there is no difference between you and those who say that every one who does
not act through will, power and choice, who neither hears nor sees, is dead, and he who does not know other things is dead. And if it is possible that the First is destitute of all these attributes, what need has it of knowing itself? ‘ And if they return to the doctrine that everything which is free from matter is intellect by itself and therefore thinks itself, we have shown that this is an arbitrary judgement without any proof.

And if they say: ‘The proof is that what is existent is divided into what is alive and what is dead, and what is alive is prior and superior to what is dead, and the First is prior and superior: therefore let it be alive; and every living being knows itself, since it is impossible that the living should be amongst its effects and should not itself be alive’, we answer: ‘All this is pure presumption, for we affirm that it is not impossible that that which knows itself should follow from that which does not, either through many intermediaries or without mediation. And if the reason for its impossibility is that in that case the effect would be superior to the cause, well, it is not impossible that the effect should be superior to the cause, for the superiority of the cause to the effect is not a fundamental principle. Further, how can you refute the view that its superiority might consist not in its knowledge but in the fact that the existence of the universe is a consequence of its essence? For the proof is that, whereas the First neither sees nor hears, there are many other beings who know other things than themselves and who do see and hear.’

And if it were said, ‘Existents are divided into the seeing and the blind, the knowing and the ignorant’, we answer: ‘Well, let the seeing then be superior and let the First see and have knowledge of things!’ But the philosophers deny this, and say that its excellence does not consist in seeing and knowing things, but in not being in need of sight and knowledge and being the essence from which there proceeds the universe in which the knowing and the seeing beings exist. And in the same way it may be said that this essence does not possess excellence because it has knowledge itself, but because it is the principle of essences which possess knowledge, and this is an excellence which is peculiar to it.

The philosophers are therefore forced to deny also that the First knows itself, for nothing proves such a knowledge but will, and nothing proves will except the temporal beginning of the world, and if this principle is destroyed, all these things are destroyed which are accepted through the speculation of the mind alone. For, they do not possess a proof for any thing they affirm or deny concerning the attributes of the First, but they make only such guesses and conjectures as lawyers would despise in their suppositions. However, no wonder that the intellect should be perplexed about the divine attributes; one should wonder only at the wonderful self-complacency of the philosophers, at their satisfaction with their proofs and their belief that they know those things through evident proofs, notwithstanding the mistakes and the errors in them.

I say:

The most wonderful thing is the claim of the theologians that the temporal becoming of the world implies that it has been willed by a will, for we find that temporal things occur through nature, through will, and by chance. x Those that occur through will are the products of art, and those that occur through nature are natural things, and if temporal things occurred only through will, will would have to be included in the definition of the temporal, whereas it is well known that the definition of temporal becoming is ‘existence succeeding non-existence’. If indeed the world had come into being temporally, it would be more appropriate that it should have come into being, in so far as it was a natural existent, from principles appropriate to natural things, rather than from principles appropriate to artificial things, i. e. the will. Since, however, it is established that the world exists through a First Agent which preferred its existence to its nonexistence, it is necessary that this agent should be a willer, and if this First Agent does not cease to prefer the world’s existence to its nonexistence, and the willer-as Ghazali says-must have knowledge, the philosophers are in complete agreement with the theologians about this fundamental point. The whole theological argument, however, which he gives has only persuasive power, because it compares natural things to artificial.

As to what he says of the philosophers, that they believe that what proceeds from the Creator
proceeds in a natural way, this is a wrong imputation. What they really believe is that existents proceed from Him in a way superior to nature and to the human will, for both these ways are subject to an imperfection, but they are not the only possible ways, since it has been proved that the act of God can proceed from Him neither in a natural way nor in a voluntary, in the sense in which this is understood in the sublunar world. For will in an animal is the principle of movement, and if the Creator is devoid of movement, He is devoid of the principle of movement in the way a voluntary agent in the empirical world moves. What proceeds from God proceeds in a nobler way than the voluntary, a way which nobody can understand but God Himself. And the proof that He wills is that He knows the opposites, and if He were an agent in absolutely the same way as He is a knower, He would carry out the two contrary acts together, and this is impossible; and therefore it is necessary that He should perform one of the two contraries through choice.

The error of the theologians with regard to this question is that they say that every act is either natural or voluntary, but do not understand the meaning of either of these words. For nature, according to the philosophers, has different meanings, the primary being the ascending of fire and the descending of earth, and an existent only has this movement when something has prevented it from being in its natural place, and there was therefore something that constrained it; but the Creator is too high for this kind of nature. The philosophers also apply the term ‘nature’ to every potency from which an intellectual act proceeds, in the same way as the acts which proceed from the arts, and some of the philosophers ascribe intellect to this nature, and some say that this nature does not possess intellect but acts only by natures And they say that this nature proceeds from an intellect, because they compare it to artificial things which move themselves and from which orderly well-arranged acts proceed. And therefore their master Aristotle asserts that it is manifest that the nature of intellect rules the universe. And how far is this belief from what Ghazali ascribes to them!

Who, however, assumes as a universal maxim that he who knows himself must know other things which proceed from him, must conclude that he who does not know other things cannot know himself.

And having refuted Avicenna’s theory that God knows other things, by the arguments of the philosophers on this point which he adduces against him, he concludes against him that the First does not know itself; and this conclusion is valid.

And as to what he relates of the argument of the philosophers on this point, namely that they say that he who does not know himself is dead and the First cannot be dead, this is a persuasive argument composed of common propositions, for he who is not alive is not dead unless it is in his nature to receive life—or one must mean by ‘dead’ what is meant by ‘inanimate’ and ‘inorganic’, and then this is a true dichotomy, for every existent is either alive or inorganic, provided we understand by ‘life’ a term which is equivocally used of the eternal and the corruptible.

And as to Ghazali’s words:

And if they return to the doctrine that everything which is free from matter is intellect by itself and therefore thinks itself, we have shown that this is an arbitrary judgement without any proof.

I say:

We have already shown the manner in which this proof of the philosophers must be taken, in so far as this proof preserves its power by being given in this book—I mean its power is diminished, as is necessary when a thing is removed from its natural context. And as to what he says of their arguing on this point against the philosophers that the existent is either alive or dead, and that which is alive is more noble than that which is dead, and that the principle is nobler than that which is alive and that it is therefore necessarily alive, if by ‘dead’ is understood the inanimate, these propositions are common and true.

His assertion, however, that life can proceed from the lifeless and knowledge from what does not possess knowledge, and that the dignity of the First consists only in its being the principle of the universe, is false. For if life could proceed from the lifeless, then the existent might proceed from the non-existent, and then anything whatever might proceed from anything whatever, and there would be no congruity between causes and effects, either in the genus predicated analogically or in the species.

As to his assertion that, when the philosophers say that what is nobler than life must be alive, it is like saying that that which is nobler than what has hearing and seeing must have hearing and seeing:
the philosophers do not say so, for they deny that the First Principle can hear and see. And
Ghazali’s argument that, since, according to the philosophers, that which is superior to what hears and
sees need not hear and see, then also what is superior to the living and the knowing need not itself be
alive and possessed of knowledge and that, just as according to the philosophers that which possesses
sight can proceed from what has no sight, so it is possible that knowledge should proceed from what
has no knowledge: this is a very sophistical and false argument.

For according to the philosophers that which has no hearing or seeing is not absolutely superior to
that which has hearing and seeing, but only because it has a perception superior to seeing and hearing,
namely knowledge. ‘ But, since there is nothing superior to knowledge, it is not possible that that
which does not possess knowledge should be superior to that which does, be it a principle or not. For
since some of the principles possess knowledge, others not, it is not permissible that those which do
not know should be superior to those that do, just as little as this is possible in regard to effects which
do and do not possess knowledge. And the nobility of being a principle cannot surpass the nobility of
knowledge, unless the nobility of a principle that does not possess knowledge could surpass the
nobility of a principle that does. And the excellence of being a principle cannot surpass the excellence
of knowledge. And therefore it is necessary that the principle which has the utmost nobility should
possess the utmost excellence, which is knowledge. The philosophers only avoid ascribing to the First
hearing and seeing, because this would imply its possessing a soul. The Holy Law ascribes hearing
and seeing to God to remind us that God is not deprived of any kind of knowledge and understanding,
and the masses cannot be made to grasp this meaning except by the use of the terms ‘hearing’ and
‘seeing’, and for this reason this exegesis is limited to the learned, and therefore cannot be taken as
one of the dogmas of the Holy Law common to the masses. And the same is the case with many
questions the solutions of which the Holy Law leaves to science.

Everything this chapter contains is the confusion and the incoherence of Ghazali himself. But, we
appeal to God on account of the mistakes the learned have made, and that He may pardon them
because of their wish to glorify His name in all such questions, and we pray God that He may not
place us among those who are excluded from the next world through their faults in this, or from the
highest through their desire for the lowest, and that He may bestow on us final blessedness!

---

THE THIRTEENTH DISCUSSION

TO REFUTE THOSE WHO AFFIRM THAT GOD IS IGNORANT OF THE
INDIVIDUAL THINGS WHICH ARE DIVIDED IN TIME INTO PRESENT, PAST,
AND FUTURE

Ghazali says:

About this theory they all agree; for as to those who believe that God only knows
Himself, this is implied in their belief; and as to those who believe that He knows
things besides Himself (and this is the theory which Avicenna has chosen) they believe
that God knows other things in a universal knowledge which does not fall under the
concept of time and which is not differentiated through past, future, and present
although, nevertheless, Avicenna affirms that not the weight of a grain escapes God’s
knowledge either on earth or in the heavens, since He knows individual things in a
universal way. ‘

Now we must first understand this theory, and then occupy ourselves with refuting
it. We shall explain this through an example, namely that the sun, for example, suffers
an eclipse, after not having been eclipsed, and afterwards recovers its light. There are
therefore in an eclipse three moments: the moment when there was not yet an eclipse
but the eclipse was expected in the future, the time when the eclipse was actually there,
its being, and thirdly, the moment the eclipse had ceased but had been. Now we have
in regard to these three conditions a threefold knowledge: we know first that there is
not yet an eclipse, but that there will be one, secondly that it is now there, and thirdly,
that it has been present but is no longer present. This threefold knowledge is
numerically distinguishable and differentiated and its sequence implies a change in the
knowing essence, for if this knowing essence thought after the cessation of the
eclipse that the eclipse was present as before, this would be ignorance, not knowledge,
and if it thought during its presence that it was absent, this again would be ignorance,
and the one knowledge cannot take the place of the other.

The philosophers affirm now that the condition of God is not differentiated by
means of these three moments, for this would imply a change, and that He whose
condition does not change cannot be imagined to know these things, for knowledge
follows the object of knowledge, and when the object of knowledge changes, the
knowledge changes, and when the knowledge changes, without doubt the knower
changes too; but change in God is impossible. However, notwithstanding this, the
philosophers affirm that God knows the eclipse and all its attributes and accidents, but
through a knowledge which is attributed to Him in an eternal attribution and is
unchangeable: God knows for instance that the sun exists and that the moon exists, and
that they have emanated from God Himself through the medium of angels whom the
philosophers in their technical terminology call ‘separate intellects’, and God knows
that the sun and moon move in circles and that between their orbits there is an
intersection at two points, the ascending and the descending node, * and that at certain
times the sun and moon are together in these nodes and that then the sun is eclipsed. I.e.
the body of the moon comes between the sun and the eyes of the observer, and the sun
is concealed from his eyes, and that when the sun has passed a certain distance beyond
this node, say a year, it is eclipsed again, and that this eclipse is either total or for a
third or for a half, and that it will last an hour or two hours, and God knows equally all
other time determinations and all other accidents of the eclipse; and nothing of this
escapes God’s knowledge. However, God’s knowledge before, during, and after the
eclipse is all of one kind without any differentiation and without any implication of a
change in His essence. And such is His knowledge of all temporal occurrences which
take place through causes which have other causes terminating finally in the circular
movement of the heavens, and the cause of this movement is the soul of the heavens,
and the cause of the soul’s movement is its desire to assimilate itself to God and to the
angels near Him. * And the whole universe is known to Him, that is, it is manifested
to Him in one single congruous manifestation which is not influenced by time. Still, at
the time of the eclipse it cannot be said that He knows that the eclipse is taking place
now, nor does He know when it has passed that it has passed now, for He cannot be
imagined to know anything which for its definition needs a relation to time, since this
implies a change. This is their solution in so far as it concerns a division in time.

And as concerns their theory about what is divided in matter and space, like
individual men and animals, they say that God does not know the accidents of Zaid,
Amr, and Khalid and that He knows only man in general, through a universal
knowledge, and that He knows the accidents and properties of man in general, namely
that he must have a body composed of limbs, some to grasp with, some to walk with,
some to perceive with, some of which form a pair while some are single, and that the
bodily faculties must be dispersed in all parts of the body. And the same applies to all
the qualities which are inside and outside man’s body and all its accidents, attributes,
and consequences, so that there is nothing that is hidden from God in His knowledge
of the universal. But the individual Zaid can only be distinguished from Amr through
the senses, not through the intellect, and this distinction is based on pointing to a
special direction, whereas the intellect can only understand direction and space
absolutely as universals. And when we say ‘this’ and ‘that’, this is a case of pointing to
a special relation of a sensible thing to the observer as being near to him or far from
him, or in a definite place, and this is impossible where God is concerned.

This then is the principle in which they believe, and through it they uproot the
Divine Laws absolutely, for this principle implies that God cannot know whether Zaid
obeys or disobeys Him, since God cannot know any new occurrences that happen to
Zaid, as He does not know the individual Zaid; for the individual and his acts come
into existence after nonexistence, and as God does not know the individual, He cannot
know his conditions and his acts—indeed, He cannot know that Zaid becomes a
heretic or a true believer, for He can know only the unbelief and the belief of man in
general, not as it is specified in individuals. Yes, God cannot know Muhammad’s
proclaiming himself a prophet at the time he did, nor can God know this of any
definite prophet; He can only know that some people proclaim themselves prophets
and that they have such-and-such qualities, but any individual prophet He cannot
know, for he can only be known by sense-perception. Nor can He know the acts which
proceed from the prophets, since they are divided as acts of a definite man through the
division of time, and their perception with their diversity implies a change in the
observer.

This is what we wanted to do first, namely to expound their view, then to render it
intelligible, thirdly to show the perversities implied in it.

We shall now pass on to relate the artfulness of their theory and the point where it
fails. Their artfulness lies in the fact that they say: ‘There are here three different
moments, and a sequence of different things in one single subject no doubt implies a
change in it. For if at the moment of the eclipse God thought that what was happening
was like what had been before, He would be ignorant; if, on the other hand, He knew
that it was happening and knew previously that it was not happening, but would
happen, His knowledge and His condition would have become different, and this
would imply a change, for “change” means only a difference in the knowledge and a
difference in the knowledge implies a difference in the knower, for he who did not
know a thing and then knows it, has changed: previously he had no knowledge that it
was happening, and then his knowledge was realized: therefore he changed. ‘

And they have elaborated this by saying that there are three kinds of conditions;,
first a condition which is a mere relation, as when we say right and left, for this does
not refer to an essential attribute, but is a mere relation; for if you change a thing from
your right to your left, your relation to it changes, but the condition of your essence
does not change, for the relation changes with respect to the essence, but the essence
does not change. The second kind of condition is of the same type, i. e. when you have
the capacity to move bodies in front of you, and those bodies or part of them
disappear, your innate power and your capacity does not change, for your capacity is
first the capacity to move body in general and secondly to move a definite body in so
far as it is a body; and the relation of the capacity to the definite body is not an
essential attribute, but a mere relation, and the disappearance of the body determines
the cessation of the relation, but not a change in the condition of the one who possesses
this capacity. The third kind of condition, however, is a change in the essence, for
when one who had no knowledge acquires knowledge and one who had no power
becomes powerful there is indeed a change. ‘

And the change in the object known causes a change in the knowledge, for the
relation to the definite object known enters into the essence of the knowledge itself,
since the essence of the definite knowledge is attached to the definite object known as
it exists in reality, and when the knowledge attaches itself to it in another relation, it
becomes necessarily another knowledge and this succession implies a differentiation in
the essence of the knowledge. And it cannot be said that God has one single
knowledge which, having been knowledge of the future event, could become
knowledge of the present event, and having been knowledge of the present event,
could become knowledge of the past event, for although the knowledge would be one
and the same and have similar conditions, there would be a change of relation to Him
and the change of relation would enter into the essence of the knowledge; and this
change would imply a change in the essence of the knowledge, and from this there
would result a change (which is impossible) in God.

The objection to this is twofold.

First one can say: How will you refute one who says that God has one single
knowledge of the eclipse, for instance, at a definite time, and that this knowledge
before the occurrence of the eclipse is the knowledge that the eclipse will occur, and
during the eclipse is identical with the knowledge that it is occurring, and after the
eclipse identical with the knowledge that it has ceased, and that these differences refer
to relations which imply neither a change in the essence of the knowledge nor a change
in the essence of the knower, and that this is exactly like a mere relation? For one
single person can be at your right and then turn in front of you and go to your left, and
there is a succession of relations with respect to you; but that which is changing is the
person who takes up different positions, and God’s knowledge must be understood in
this way, for indeed we admit that God comprehends things in one single knowledge in
everlasting eternity, and that His condition does not change; with their intention, the
denial of His change, we do agree, but their assertion that it is necessary to regard the
knowledge of an actual becoming and its cessation as a change, we refuse to accept.
For how do you know this? Indeed, suppose God had created in us a knowledge that
Zaid will arrive tomorrow at daybreak, and had made this knowledge permanent
without creating for us another knowledge or the forgetfulness of this knowledge; then,
by the mere previous knowledge, we should know at daybreak that at present Zaid is
arriving and afterwards that he had arrived, and this one permanent knowledge would
suffice to comprehend these three moments.

There still remains their assertion that the relation to a definite object known enters
into the essence of the knowledge of this object, and that whenever the relation
becomes different the thing which has this essential relation becomes different, and
that whenever this differentiation and this sequence arise there is a change. ‘

We say: If this is true, then rather follow the path of your fellow-philosophers
when they say that God knows only Himself and that knowing Himself is identical
with His essence, for if He knew man and animal and the inorganic in general (and
these are undoubtedly different things), His relation to them would undoubtedly be
different too; and one single knowledge cannot be a knowledge of different things,
since the object related is differentiated, and the relation is differentiated, and the
relation to the object known is essential to the knowledge, and this implies a
multiplicity and a differentiation-not a mere multiplicity with a similarity, for similar
things are things which can be substituted for each other, but the knowledge of an
animal cannot be substituted for the knowledge of the inorganic, nor the knowledge of
white for the knowledge of black, for they are two different things. ‘ Besides, these
species and genera and universal accidents are infinite and they are different, and how
can different sciences fall under one science? Again, this knowledge is the essence of
the knower without any addition, and I should like to know how an intelligent man can
regard the unity of the knowledge of one and the same thing, when this knowledge is
divided through its relations with the past, the future, and the present, as impossible,
and uphold the unity of the knowledge which is attached to all genera and all different
species! For the diversity and the distance between the genera and the remote species
is far greater than the difference which occurs in the conditions of one thing which is
divided through the division of time; and if the former does not imply a plurality and
differentiation, why then does the latter? And as soon as it is proved that the diversity
of times is less important than the diversity of genera and species, and that the latter
does not imply a plurality and a diversity, the former also will not imply this. And if
this does not imply a plurality, then it will be possible that the whole universe should
be comprehended in one everlasting knowledge in everlasting time, and that this
should not imply a change in the essence of the knower.

I say:

This sophistry is based on the assimilation of Divine Knowledge to human and the comparison of
the one knowledge with the other, for man perceives the individual through his senses, and universal
existents through his intellect, and the cause of his perception is the thing perceived itself, and there is
no doubt that the perception changes through the change in the things perceived and that their
plurality implies its plurality.

As to his answer that it is possible that there should exist a knowledge the relation of which to the
objects known is that kind of relation which does not enter into the essence of the thing related, like
the relation of right and left, to that which has a right and a left his is an answer which cannot be understood from the nature of human knowledge. ‘And his second objection, that those philosophers who affirm that God knows universals must, by admitting in His knowledge a plurality of species, conclude that a plurality of individuals and a plurality of conditions of one and the same individual is permissible for His knowledge, is a sophistical objection. For the knowledge of individuals is sensation or imagination, and the knowledge of universals is intellect, and the new occurrence of individuals or conditions of individuals causes two things, a change and a plurality in the perception; whereas knowledge of species and genera does not imply a change, since the knowledge of them is invariable and they are unified in the knowledge which comprehends them, and universality and individuality only agree in their forming a plurality.

And his statement that those philosophers who assume one simple knowledge, which comprehends genera and species without there existing in it a plurality and diversity which the differentiation and diversity of the species and genera would imply, will have also to admit one simple knowledge which will comprehend different individuals and different conditions of one and the same individual, is like saying that if there is an intellect which comprehends species and genera, and this intellect is one, there must be one simple genus which comprehends different individuals; and this is a sophism, since the term ‘knowledge’ is predicated equivocally of divine and human knowledge of the universal and the individual. But his remark that the plurality of species and genera causes a plurality in the knowledge is true, and the most competent philosophers therefore do not call God’s knowledge of existents either universal or individual, for knowledge which implies the concepts of universal and individual is a passive intellect and an effect, whereas the First Intellect is pure act and a cause, and His knowledge cannot be compared to human knowledge: for in so far as God does not think other things as being other than Himself His essence is not passive knowledge, and in so far as He thinks them as being identical with His essence, His essence is active knowledge. ‘And the summary of their doctrine is that, since they ascertained by proofs that God thinks only Himself, His essence must of necessity be intellect. And as intellect, in so far as it is intellect, can only be attached to what exists, not to what does not exist, and it had been proved that there is no existent but those existents which we think, it was necessary that His intellect should be attached to them, since it was not possible that it should be attached to non-existence and there is no other kind of existent to which it might be attached. ‘And since it was necessary that it should be attached to the existents, it had to be attached either in the way our knowledge is attached to it, or in a superior way, and since the former is impossible, this knowledge must be attached in a superior way and according to a more perfect existence of existents than the existence of the existents to which our intellect is attached. For true knowledge is conformity with the existent, and if His knowledge is superior to ours and His knowledge is attached to the existent in a way superior to our attachment to the existent, then there must be two kinds of existence, a superior and an inferior, and the superior existence must be the cause of the inferior.

And this is the meaning of the ancient philosophers, when they say that God is the totality of the existents which He bestows on us in His bounty and of which He is the agent. And therefore the chiefs of the Sufis say: there is no reality besides Him. But all this is the knowledge of those who are steadfast in their knowledge, and this must not be written down and it must not be made an obligation of faith, and therefore it is not taught by the Divine Law. And one who mentions this truth where it should not be mentioned sins, and one who withholds it from those to whom it should be told sins too. And that one single thing can have different degrees of existence can be learned from the different degrees of existence of the soul.

Ghazali says:

The second refutation is: ‘What prevents you, according to your doctrine, from affirming God’s knowledge of individuals, even if this implies His changing, for why do you not believe that this kind of change is not impossible in God, just as Jahm, one of the Mu’tazilites, says that His knowledge of temporals is temporal and the later Karramites say that God is the substratum of the temporal’? The true believers refute these theories only by arguing that what changes cannot be without change, and what cannot be without change and without temporal occurrences is itself temporal and not eternal. ‘For you, however, according to your doctrine the world is eternal but not without change, and if you acknowledge an eternal which changes, nothing prevents
you from accepting this theory. ‘

If you replied: We only regard this as impossible, because the temporal knowledge in His essence must either derive from Himself or from something else; that it should derive from Himself is impossible, for we have shown that from the eternal no temporal can proceed and that God cannot become active after having been at rest, for this would imply a change, and we have established this in treating the question of the temporal becoming of the world; and if it were to arise in His essence from something else, how could something else influence and change Him so that His conditions changed as if under the power and necessity of something different from Him? -we answer: Neither of these alternatives is impossible, according to your doctrine. As to your assertion that it is impossible that from the eternal a temporal being should proceed, we refuted this sufficiently when we treated this problem. According to you it is impossible that from the eternal there should proceed a temporal being which is the first of a series of temporal beings and it is only impossible that there should be a first temporal being. ‘ However, these temporal beings have no infinite number of temporal causes, but by means of the circular movement they terminate in something eternal which is the soul and life of the sphere; and the soul of the sphere is eternal and the circular movement arises temporally from it and each part of this movement begins and ends, and that which follows it is surely a new occurrence. Therefore, according to you the temporal beings arise from the eternal. ‘ However, since the conditions of the eternal are uniform, the emanation of temporal occurrences from Him will be eternally uniform, just as the conditions of the movement are uniform, since they proceed from an eternal being whose conditions are uniform; and all the philosophical sects acknowledge that from an eternal being a temporal being can proceed, when this happens in a proportionate way and eternally. Therefore let the different types of His knowledge proceed from Him in this way.

And as to the other alternative, that His knowledge should proceed from another, we answer: Why is that impossible according to you? There are here only three difficulties. The first is the changing, but we have already shown that this is a consequence of your theory.

The second difficulty, that one thing should be the cause of a change in another, is not impossible according to you; for let the occurrence of the thing be the cause of the occurrence of its being known, just as you say that the appearance of a coloured figure in front of the pupil of the eye is the cause of the impression of the image of this figure on the vitreous humour of the pupil through the medium of the transparent air between the pupil and the figure seen; and if therefore an inanimate object can be the cause of the impression of the form on the pupil-and this is the meaning of sight-why should it be impossible that the occurrence of temporal beings should cause the First to acquire its knowledge of them? And just as the potency of seeing is disposed to perceive, and the appearance of the coloured figure, when the obstacles are removed, is the cause of the actualization of the perception, so let according to you the essence of the First Principle be disposed to receive knowledge and emerge from potency into act through the existence of this temporal being. And if this implies a change in the eternal, a changing eternal is not impossible according to you. And if you protest that this is impossible in the necessary existent, you have no other proof for establishing the necessary existent than the necessity of a termination to the series of causes and effects, as has been shown previously, and we have proved that to end this series with an eternal being which can change is not impossible.

The third difficulty in the problem is that if the Eternal could change through another, this would be like subjection and the control of another over Him.

But one may say: Why is this impossible according to you? For it only means that the Eternal is the cause of the occurrence of the temporal beings through intermediaries, and that afterwards the occurrence of these temporal beings becomes the cause of the knowledge which the Eternal has of them. It is therefore as if Hemere Himself the cause of this knowledge reaching Him, although it reaches Him through
intermediaries. And if you say that this is like subjection, let it be so, for this conforms to your doctrine, since you say that what proceeds from God proceeds in the way of necessity and nature, and that He has no power not to do it, and this too resembles a kind of bondage, and indicates that He is as it were under necessity as to that which proceeds from Him. And if it is said that this is no constraint, since His entelechy consists in the fact that He makes everything proceed from Himself, and that this is no subjection, then we answer that His entelechy consists in knowing everything, and if it is true to say that the knowledge which we receive in conjunction with everything that happens is a perfection for us, not an imperfection or subjection, let the same be the case with respect to God.

I say:

The summary of this first objection against the philosophers, which is a refutation of their theories, not of the fact itself, is that ‘according to your principles, philosophers, there exists an eternal being in which temporal beings inhere, namely the sphere; how can you therefore deny that the First Eternal is a subject in which temporal beings inhere?’ The Ash’arites deny this only because of their theory that any subject in which temporal beings inhere is itself a temporal being. And this objection is dialectical, for there are temporal beings which do not inhere in the eternal, namely the temporal beings which change the substance in which they inhere; and there are temporal beings which inhere in the eternal, namely the temporal beings which do not change the substance of their substratum, like the local movement of the moving body and transparency and illumination;’ and further there is an eternal in which no movements and no changes inhere at all, namely the incorporeal eternal; and there is an eternal in which only some movements inhere, namely the eternal which is a body like the heavenly bodies, and when this distinction, which the philosophers require, is made, this objection becomes futile, for the discussion is only concerned with the incorporeal eternal.

Having made this objection against the philosophers, he gives the answer of the philosophers about this question, and the summary is that they are only prevented from admitting temporal knowledge in the First, because temporal knowledge must arise through itself or through another; and in the former case there would proceed from the eternal a temporal being, and according to the principles of the philosophers no temporal being can proceed from the eternal. Then he argues against this assertion that from the eternal no temporal being can proceed, by showing that they assume that the sphere is eternal and that they assume that temporal beings proceed from it.

But their justification of this is that the temporal cannot proceed from an absolutely eternal being, but only from an eternal being which is eternal in its substance, but temporal in its movements, namely the celestial body; and therefore the celestial body is according to them like an intermediary between the absolutely eternal and the absolutely temporal, for it is in one way eternal, in another way temporal, and this intermediary is the celestial circular movement according to the philosophers, and this movement is according to them eternal in its species, temporal in its parts. And so far as it is eternal, it proceeds from an eternal, and in so far as its parts are temporal, there proceed from them infinite temporal beings. And the only reason that prevented the philosophers from accepting an existence of temporal beings in the First was that the First is incorporeal and temporal beings only exist in body, for only in body, according to them, there is receptivity, and that which is free from matter has no receptivity.

And Ghazali’s objection to the second part of the argument of the philosophers, namely that the First Cause cannot be an effect, is that it is possible that God’s knowledge should be like the knowledge of man, that is that the things known should be the cause of His knowledge and their occurrence the cause of the fact that He knows them, just as the objects of sight are the cause of visual perception and the intelligible the cause of intellectual apprehension; so that in this way God’s producing and creating existents would be the cause of His apprehending them, and it would not be His knowledge that would be the cause of His creating them.

But it is impossible, according to the philosophers, that God’s knowledge should be analogous to ours, for our knowledge is the effect of the existents, whereas God’s knowledge is their cause, and it is not true that eternal knowledge is of the same form as temporal. He who believes this makes God an eternal man’ and man a mortal God, and in short, it has previously been shown that God’s knowledge stands in opposition to man’s, for it is His knowledge which produces the existents, and it is not the existents which produce His knowledge.
THE FOURTEENTH DISCUSSION

T'O REFUTE THEIR PROOF THAT HEAVEN IS AN ANIMAL MOVING IN A CIRCLE IN OBEDIENCE TO GOD

Ghazali says:

The philosophers say also that heaven is an animal and possesses a soul which has the same relation to the body of heaven as our souls to our bodies, and just as our bodies move by will to their ends through the moving power of the soul, heaven acts. And the aim of the heavens in their essential movement is to serve the Lord of the world in a way we shall relate.

Their doctrine in this question is something that cannot be refuted, and we shall not declare that it is impossible; for God has the power of creating life in any body, and neither the size of a body nor its circular shape is a hindrance to its being animated, for the condition of the existence of life is not limited to a particular shape, since animals, notwithstanding their different shapes, all participate in the reception of life. But we claim their incapacity to reach this knowledge by rational proof, even if it is true, and only the prophets through divine revelation or inspiration could apprehend such a knowledge, but rational argument does not prove it; indeed, we do not even assert that it is impossible that such a thing should be known by proof, if there is a proof and this proof is valid, but we must say that what they have given as a proof has only the value of a conjecture, but lacks all strictness.

Their device is that they say that heaven is moved, and this is a premiss given by perception. And every body moved has a mover, which is a premiss established by reason, since if body were moved merely by being body, every body would be in motion. Every mover receives its impulse either from the moved itself, like the nature in the stone which falls and the will in the movement of the animal conjoined with its power to move, or from an external mover which moves through constraint, as when a stone is flung upwards. Everything that is moved by something existing in itself is either unconscious of its movement (and we call this nature), like the falling of the stone, or conscious (and we call this voluntary or animated). This disjunction, that a movement is either constrained or natural or voluntary, comprises all the cases completely, so that if a movement does not fall under two of these divisions it must be of the third type. Now the movement of heaven cannot be constrained, because the mover of a movement by constraint is either (i) another body which is moved by constraint or by will, and in this case we must finally no doubt arrive at a will as mover, and when in the heavenly bodies a body moved through will is established, then our aim is reached, for what use is it to assume movements through constraint when finally we must admit a will? or (2) God is the mover of its movement by constraint without intermediary, and this is impossible; for if it moves through Him in so far as it is a body and in so far as He is its creator, then necessarily every body ought to be moved.

This movement, therefore, must be distinguished by a quality which marks this body off from all other bodies; and this quality will be its proximate mover, either by will or by nature. And it cannot be said that God moves it through His will, because His will has the same relation to all bodies, and why should this body be specially disposed so that God should move it rather than another? One cannot suppose this; for it is impossible, as has been shown in the question about the temporal beginning of the world. When it is therefore established that this body needs as a principle of movement a special qualification, the first division, that of the movement through constraint, is ruled out.

So there remains the possibility that this movement occurs by nature. But this is not possible, for nature by itself is not the cause of motion, because the meaning of ‘motion’ is the withdrawal from one place to another place; and a body does not move

http://www.muslimphilosophy.com/ir/tt/tt-all.htm
from the place in which it is when that place is its proper place. For this reason a
bladder full of air on the surface of the water does not move, but when it is immersed it
moves towards the surface of the water, and then it has found its proper place and has
come to rest and its nature is stabilized; when, however, it is transferred to a place
which is not its proper one, it withdraws to its proper place, just as it withdraws from
mid-water to the border of the air. Now it cannot be imagined that the circular
movement is natural, since it returns to every position and place which it would be
supposed to abandon, and it is not by nature that a body seeks the place which it
abandons, and therefore the bladder of air does not seek the interior of the water, nor
the stone when it has come to rest on the earth the air. Thus only the third division
remains, that of movement by will. ‘

I say:

What he lays down in this section, that every thing moved either is moved by itself or through a
body from outside and that it is this which is called constraint, is self-evident. But that for every thing
which is moved by itself there is no mover but the moved is not a self-evident proposition; it is only
a common notion, and the philosophers indeed try to prove that every thing moved by itself has an
interior mover different from it, through the use of other premisses which are self-evident, and of
premisses which are the conclusions of other proofs, and this is something which may be ascertained
in their books. And likewise it is not self-evident that every thing moved by an exterior mover must
finally terminate in a thing moved by itself: what is posed here as a set of self-evident premisses is, as
a matter of fact, a mixture of the two kinds of assertions; that is to say they are partly conclusions and
partly self-evident. Indeed, that what is moved by itself and not by an external body is moved either
by its substance and nature or by an interior principle, and that it cannot be moved by something
which cannot be seen or touched and which is connected with it from the outside (or in other words
by an incorporeal entity) is self-evident. You can claim to have a proof for this, namely by saying that
if this were not so, upward movement would not be proper to fire rather than to earth; but it is, indeed,
evident in itself,And as to that which does not move by its own substance and nature, this is evident in
the things which are sometimes in motion and sometimes at rest, since that which is by nature cannot
perform both of two opposites;’ for those things, however, which are perceived to move continually, a
proof is necessary.

Again, as to his assertion that what is moved by itself is moved through a principle in itself, either a
principle called ‘nature’ or a principle called ‘soul’ and ‘choice’, this is true, when previously it has
been proved that nothing exists which is moved by itself. As concerns his affirmation that the
principle called nature does not move by itself in space, except when it is not its proper place (for
then it moves to its proper place and stays there), this is true. And his further remark that what moves
in a circle has neither an improper nor a proper place, so that it could move from the one to the other
either totally or partially, this is nearly self-evident and easy to uphold, and he has in this section
mentioned something of its explanation and proof; and therefore, when we understand ‘nature’ in the
sense he has established here, circular movement cannot move by nature.

And as to his further remark that, when it does not move by nature, it moves through soul or
through a potency which resembles the soul, it appears that the term ‘soul’ is predicated only
equivocally of the soul in the celestial bodies, ‘ and the learned for the most part apply the term
‘nature’ to every potency which performs a rational act, namely an act which conforms to the order
and arrangement which exist in rational things; but they exclude heaven from this kind of potency,
because according to them it is heaven which provides this directing power for all existents?

However, the argument of the ancients he relates here has only dialectical value, partly because
much in it which is in reality a conclusion of a proof is assumed to be self-evident and partly because
things are opposed in it which are not really in opposition. It is also dialectical because its premisses
are probable and common notions. This was Avicenna’s method of proving that the heavenly body
was an animated body, but for this the ancients have a more efficient and clearer proof.

Ghazali says:

The objection is that we can assume besides your theory three hypotheses which
cannot be proved to be untrue. The first is that we assume the movement of heaven to
take place through constraint by another body which desires its movement and makes
it turn eternally, and that this body which sets it in motion is neither a sphere nor a
circumference nor a heaven; their assertion is therefore false that the movement of heaven is voluntary and that heaven is animated, and what we have said is possible, and it cannot be denied except by a presumption of impossibility.

I say:
This is false, for the philosophers have proved that outside heaven there is no other body, and it cannot be inside heaven; besides, were this body to set it in motion, it would necessarily have to be moved itself, and we should have an infinite regress.

Ghazali says:
The second hypothesis is to say: ‘The movement occurs by constraint and its principle is the will of God, and indeed we say that the downward movement of a body also occurs by constraint, through God’s creating this movement in this body; and the same can be said of all the other movements of those bodies which are not living. ‘

There still remains the fact that the philosophers regard this as impossible, because they ask why the will should have distinguished just this body, whereas all other bodies participate in bodiliness. But we have already explained that it is of the nature of the eternal Will to differentiate one thing from a similar one, and that the philosophers are forced to admit such a quality for the determination of the direction of the circular movement and for the determination of the place of the poles and their points, and we shall not repeat this; but our argument is, in short, that when they deny that a body can be differentiated for the attachment of the will to it without a distinctive attribute, this can be turned against them in regard to this distinctive attribute, for we ask them: ‘Why is the body of heaven distinguished by this attribute, which sets it apart from all other bodies, although all other bodies are also bodies; and how can anything occur to it which does not occur to other bodies? ’ If this is caused by another attribute, we must repeat the same question about this other attribute, and in this way we should get an infinite series, and they would be forced in the end to acknowledge an arbitrary judgement of the will and the fact that in the principles there is something that distinguishes one thing from a similar one.

I say:
That a stone moves downwards through a quality which has been created in it, and fire upwards, and that these qualities are opposed -this is a self-evident fact, and to contradict it is pure folly. But it is still more foolish to say that the eternal Will causes the movement in these things everlastingly-without any act He deliberately chose and that this movement is not implanted in the nature of the thing, and that this is called constraint; for if this were true, things would have no nature, no real essence, no definition at all. For it is self-evident that the natures and definitions of things only differ through the difference of their acts, just as it is self-evident that every movement forced on a body comes from a body outside it. And this argument has no sense whatever.

And as to his affirmation ‘that to assume that the act which proceeds from an existent requires a special attribute makes it necessary to ask about this attribute also why it characterizes this existent rather than any other of its kind’, this is like saying that one ought to ask a man who asserted that earth and fire, which participate in bodiliness, were distinguished only by an attribute added to their bodiliness, why the attribute of fire characterizes fire and the attribute of earth, earth, and not rather the reverse. These, indeed, are the words of a man who does not assume for the attributes themselves a particular subject, but on the contrary believes that any attribute can be in any subject. ‘ He who speaks like this denies also the definition and the differentiation of subjects, and their characterization through special attributes, which is the first cause of the specification of existents through particular attributes, and this assumption belongs to the principles of the Ash’arites who tried thereby to annul both religious and rational wisdom and, in short, reason itself.

Ghazali says:
The third hypothesis is to admit that heaven is differentiated by an attribute and that this attribute is the principle of the movement, in the way they believe this of the downward movement, although in this case it is not known, as it is known in the case of the stone.

And their assertion that a thing cannot by its nature abandon the place sought by its nature rests on a confusion. For according to them there is here no numerical
difference; on the contrary, the body is one and the circular movement is one, and neither the body nor the movement has an actual part; they are only divided by imagination, and this movement is not there to seek its place or to abandon it—indeed, it may well be that God creates a body in the essence of which there is something which determines a circular movement. The movement itself will then be determined by this attribute, not, however, the aiming at the place, for that would imply that arrival at the place would be the aim of the movement. And if your assertion that every movement takes place in seeking a place or abandoning it is a necessary principle, it is as if you made the seeking of the place the goal of nature, not the movement itself which will in this case only be a means. But we say it is not absurd that the movement, not the seeking of a place, should be the goal itself; and why should that be impossible? And it is clear that, simply because they regard their hypothesis as the most plausible, we are not obliged to deny any other hypothesis absolutely; for to assert absolutely that heaven is a living being is pure presumption, for which there is no support.

I say:

The assertion of the philosophers that this movement is not a natural potency resembling the natural movement in earth and fire is true. And this is clear from their saying that this potency desires the place suitable to the body which possesses existence through this potency, and that the heavenly body, since all space is suitable to it, is not moved through such a potency, and the learned do not call this potency heavy or light. Whether this potency depends on perception or not, and if so which kind of perception, is shown by other arguments.

And the summary of this is to say: The inanity of the first hypothesis, namely that the mover of heaven might be another body which is not heaven, is self-evident or nearly so. For this body cannot set the heavenly body in a circular movement without being moved by itself, as if one were to say that a man or an angel turned the heavens from east to west. And if this were true, this animated body would have to be either outside the world or inside it; and it is impossible that it should be outside the world, since outside the world there is neither place nor emptiness, as has been shown in many passages, and it would also be necessary that when this body set it in motion it should rest upon a body supporting it, and this latter body again upon another, and so ad infinitum. But that it should be inside the world is also impossible, for then it ought to be perceived by the senses, since any body inside the world can be perceived, and this body, besides needing a body which would make it turn, would also need a body to carry it or perhaps the body conveying it and the body setting it in motion might be identical, and the conveying body would need a body to convey it, and the number of animated bodies which set things in motion would have to be equal to the number of heavenly bodies. And one would also have to ask about these bodies whether they were composed of the four elements, in which case they would be transitory, or whether they might be simple; and, if they were simple, what their nature was. All this is impossible, especially for one who has ascertained the natures of the simple bodies and learned their number and the species of bodies composed of them, and there is no sense in occupying ourselves with this matter here, for it has been proved in another place that this movement does not take place by constraint, since it is the principle of all movements, and through its intermediary, not only movements, but life is distributed to all beings.

As to the second hypothesis, that God moves the heavens without having created a potency in them through which they move, this also is a very reprehensible doctrine, far from man’s understanding. It would mean that God touches and moves everything which is in this sublunary world, and that the causes and effects which are perceived are all without meaning, and that man might be man through another quality than the quality God has created in him and that the same would be true for all other things. But such a denial would amount to a denial of the intelligibles, for the intellect perceives things only through their causes. This theory resembles the theory of those ancient philosophers, the Stoics, who say that God exists in everything; and we shall engage in a discussion with them when we treat the question of the denial of causes and effects.

The third objection which assumes a natural movement is to suppose that the movement of heaven is caused by a natural potency in it and through an essential attribute, not through a soul. It says that the argument of the philosophers in denying this is false, in so far as they build their proof on the following argument. The philosophers, that is, say that if the movement of heaven occurred by nature, the place sought by its natural movement would be identical with the place which it abandoned,
because every part of heaven moves to places from which it has moved, since its movement is circular. The place, however, from which natural local movement retires is different from the place it aims at, for the place from which it moves is an accidental place, while the place to which it moves is its natural place, in which it will come to rest. But, says Ghazali, this is a false assumption of the philosophers, for although they assume that the parts of heaven have many movements through many movers, this cannot be correct according to their own principles, for they affirm that the circular movement is unique, and that the body moved by it is unique, and therefore heaven is not in search of a place through its circular movement, and it is thus possible that in heaven there should be something through which it aims at the movement itself.

But the justification of the philosophers is that they only say this to such people as believe that the stars change their place through a natural movement, similar to the change of place found in things moved by nature. And the true assumption of the philosophers is that through the circular movement the thing moved is not in search of a place, but only seeks the circular movement itself, and that things which behave in this way have of necessity as their mover a soul and not nature. Movement, that is to say, has existence only in the intellect, since outside the soul there exists only the thing moved and in it there is only a particular movement without any lasting existence. But what is moved towards movement in so far as it is movement must of necessity desire this movement, and what desires movement must of necessity represent it.

And this is one of the arguments through which it is evident that the heavenly bodies are provided with intellect and desire; and this is clear also from various other arguments, one of which is that we find that circular bodies move with two contrary movements at the same time, towards the east and towards the west; and this cannot happen through nature, for that which moves through nature moves in one movement alone. And we have already spoken of what caused the philosophers to believe that heaven possesses intellect, and their plainest proof is that, having understood that the mover of heaven is free from matter, they concluded that it can only move through being an object of thought and representation, and therefore the thing moved must be capable of thought and representation. And this is clear also from the fact that the movement of the heavens is a condition of the existence and preservation of the existents in the sublunary world, which cannot take place by accident. But these things can only be explained here in an informative and persuasive fashion.

---

THE FIFTEENTH DISCUSSION

TO REFUTE THE THEORY OF THE PHILOSOPHERS ABOUT THE AIM WHICH MOVES HEAVEN

Ghazali says:

The philosophers have also affirmed that heaven is an animal which obeys God by movement and by drawing near Him; for every voluntary movement arises for the sake of an end, since one cannot imagine that an act and a movement can proceed from an animal which does not prefer the act to its omission—indeed, if the act and its omission were to be equipollent, no act could be imagined.

Further, approach to God does not mean seeking His grace and guarding oneself from His wrath, since God is too exalted for wrath and grace; similar words can only be applied to Him metaphorically, and they are used in a metaphorical way when one speaks of His will to punish or to reward. Approach cannot mean the seeking of an approach to Him in space, for this is impossible; the only meaning it can have is of an approach in qualities, for God’s existence is the most perfect and every other existence is imperfect in relation to His, and in this imperfection there are degrees and distinctions. The angels are nearest to Him in quality, not in place; and this is the meaning of the term ‘the angels in His proximity’—namely, the intellectual substances which neither change nor alter nor pass away, and which know things as they really are. And the nearer man comes to the angels in qualities the nearer he comes to God,
and the end of man’s nature lies in assimilation to the angels.

And when it is established that this is the meaning of ‘approach to God’, and that it refers to seeking approach to Him in qualities, then this consists for man in knowledge of the realities of the existents and in his remaining eternally in the most perfect condition possible to him; for indeed permanence in the utmost perfection is God.

As to the angels in His proximity, any perfection that is possible for them is actual with them in their existence, since there is no potency in them which could emerge into act, and therefore they are in the utmost perfection in regard to everything but God. And by ‘heavenly angels’ is meant the souls which move the heavens, and in them there is potency, and their perfections are divided into what is actual, like their circular shape and their appearance, which exists always, and what is potential, namely their appearance in a definite position and place; for any definite position is possible to them, but they are not actually in all positions, for to be in all of them at once is impossible. And since they cannot be at all times in all particular positions at once, they try to exhaust all these particular positions by being in them specifically, so that they do not cease to aim at one position and one place after another; and this potentiality is never ending, nor do these movements ever end.

But their one aim is to assimilate themselves to the First Principle, in the acquisition of the utmost perfection within the bounds of possibility with respect to Him, and this is the meaning of the obedience of the heavenly angels to God. And their assimilation is acquired in two ways. First, in completing every position specifically possible, and this is aimed at by first intention; secondly, by the order proceeding from their movement through the diversity of their configuration in trine and quartile, in conjunction and opposition, and through the diversity in the ascendant in relation to the earth, so that the good which is in the sublunary world can emanate from it, and all that happens arise from it. And every soul is intellective and longs for the perfection of its essence.

I say:

Everything he says here about the philosophers is a philosophical doctrine, or its consequence, or can be regarded as a philosophical doctrine, with one exception, when he says that heaven seeks by its movement the particular positions which are infinite; however, what is infinite cannot be sought, since it cannot be attained. Nobody has held this doctrine but Avicenna, and Ghazali’s objection to it, which we will mention later, is sufficient, and according to the philosophers it is the movement itself in so far as it is movement which is aimed at by heavens For the perfection of an animal, in so far as it is an animal, is movement; in this sublunary world rest occurs to the transitory animal only by accident, that is through the necessity of matter, for lassitude and fatigue touch the animal only because it is in matter. b The whole life and perfection of those animals which are not affected by tiredness and languor must of necessity lie in their movement; and their assimilation to their Creator consists in this, that by their movement they impart life to what exists in this sublunary world.

This movement, however, does not occur according to the philosophers in first intention for the sake of this sublunary world; that is, the heavenly body is not in first intention created for the sake of this sublunary world. For indeed this movement is the special act for the sake of which heaven is created, and if this movement occurred in first intention for the sake of the sublunary world, the body of the heavens would be created only for the sake of this sublunary world, and it is impossible, according to the philosophers, that the superior should be created for the sake of the inferior; on the contrary, out of the superior there follows the existence of the inferior, just as the perfection of the ruler in relation to his subject does not lie in his being a ruler, but his being a ruler is only the consequence of his perfection. In the same way the providence which prevails in this world is like the care of the ruler for his subjects, who have no salvation and no existence except in him, and especially in the ruler who for his most perfect and noble existence does not need to be a ruler, let alone that he should need his subjects’ existence. ‘

Ghazali says:

The objection to this is that in the premisses of this argument there are controversial points. We shall not, however, pay any attention to them, but shall revert at once to the final intention the philosophers had in view and refute it from two
standpoints.

The first is to say: ‘To seek perfection through being in all possible places may be foolishness rather than obedience; is it not in some degree like a man, who has no occupation and who has adequate means to satisfy his wishes and needs, and who gets up and walks round in a country or in a house, and declares that by doing so he approaches God and that he perfects himself by arriving at all possible places, and says that it is possible for him to be in these places, but not possible for him to unite all the places numerically, and that therefore he fulfils this task specifically and that in this there is perfection and an approach to God? Indeed, it is his foolishness which makes him do such a stupid thing, and it may be said that to change positions and pass from place to place is not a perfection which has any value or which may be an object of desire.

And there is no difference between what they say and this.

I say:

It might be thought that the silliness of such an argument either comes from a very ignorant or from a very wicked man. Ghazali, however, has neither of these dispositions. But sometimes unwise words come by way of exception from a man who is not ignorant, and wicked talk from a man who is not wicked, and it shows the imperfection of people that such conceits can be addressed to them.

But if we concede to Avicenna that the sphere aims through its movement at a change of positions, that this change of positions is what conserves the beings of this sublunary world after giving them their existence, and that this action is everlasting, can there then exist an obedience more complete than this? For instance, if a man exerted himself in guarding a city against the enemy, going round the city day and night, should we not regard this as a most important act of approach to God? But if we assumed that he moved round the town for the end which Ghazali attributes to Avicenna, namely that he only sought to perfect himself through trying to be in an infinite number of places, he would be declared mad. ‘ And this is the meaning of the Divine Words: ‘Verily thou canst not cleave the earth, and thou shalt not reach the mountains in height.’

And his assertion that, since heaven cannot complete the individual numerical positions or join them, it has to complete them specifically, is a faulty, incomprehensible expression, unless he means that its movement has to last in its totality since it cannot be lasting in its parts. For there are movements which are lasting neither in their parts nor in their totality, namely the movements of the transitory; and there are movements which are lasting in their totality, transitory in their parts, but notwithstanding this such a movement is said to be one in ways which are distinguished in many passages of the books of the philosophers. And his assertion that, since heaven cannot complete them numerically, it completes them specifically, is erroneous, since the movement of heaven is numerically one, and one can only apply such an expression to the transitory movements in the sublunary world; for these movements, since they cannot be numerically one, are specifically one and lasting through the movement which is numerically one.

Ghazali says:

The second is to say: What you assert of the aim can be realized through the movement from west to east. Why, then, is the first movement from east to west, and why are not all the movements of the universe in the same direction? And if there is an intention in their diversity, why are they not different in an opposite way, so that the movement from the east should become the movement from the west, and the reverse? Everything you have mentioned of the occurrence of events like trine and sextile and others through the diversity of movements would happen just the same through the reverse. Also, what you have mentioned of the completion of the positions and places would happen just the same if the movement were in the opposite direction. Why then, since the reverse movement is possible for them, do they not move sometimes in one direction, sometimes in another, to complete all their possibilities, if it is in the completion of all their possibilities that their perfection lies? It is therefore shown that all these things are phantasms without any substance; for the secrets of the heavenly kingdom cannot be attained through such phantasms. God alone can manifest them to His prophets and saints through revelation, not through proof, and therefore the later philosophers are unable to give the reason for the direction of the movement of the
heavenly bodies and why they have chosen it.

I say:
This objection is sophistical, for the transference from one question to another is an act of sophistry. Why does there follow, from their inability to assign the reason of the diversity in the directions of the movements of heaven, their inability to give the reason for the movement of heaven or to say that there is no reason at all for this movement? But this whole argument is extremely weak and feeble. However, how happy the theologians are about this problem! They believe that they have refuted the philosophers over it, since they are ignorant of the different arguments by which the philosophers have arrived at their reasons and of the many reasons that are required and must be assigned to every existent, since the causes differ through the variety in the natures of the existents. For simple existents have no other cause for what proceeds from them than their own natures and their forms, but in composite things there are found, beside their forms, efficient causes which produce their composition and the conjunction of their parts. The earth, for instance, has no other cause for its downward movement than its attribute of earthiness, and fire has no other cause for its upward movement than its own nature and its form, and through this nature it is said to be the opposite of earth. Likewise, for up and down there are no reasons why the one direction should be higher and the other lower, but this is determined by their nature. And since the differentiation of directions is determined through the directions themselves, and the differentiation of the movements through the differentiation of the directions, no other reason can be assigned for the variation in the movements than the variation in the directions of the things moved, and the variation in their natures depends on the variation of their natures; i.e. some are nobler than others.

For instance, when a man sees that animals in walking place one leg in front of their body before the other and not the reverse, and asks why the animal does this, there is no sufficient answer except to say that an animal in its movement must have one leg to put forward and one to support itself on, and therefore an animal must have two sides, right and left, and the right is the one which is always put forward first because of its special potency and the left the one which always, or mostly, follows, because of its special potency; and it cannot be the reverse, so that the left side became the right, since the natures of the animal determine this, either through a determination in a majority of cases, or through a constant determination.

The same is the case with the heavenly bodies since, if a person asks why heaven moves in a particular direction, the answer is that it is because it has a right and a left, and especially because it is evident from its nature that it is a living being, only it has the peculiarity that the right side in a part of it is the left side in another part, and that although it has only this one organ of locomotion it moves in opposite directions like a left foot which can also do the work of a right. And just as the answer to the question whether the animal would not be more perfect if its right were its left, and why the right has been differentiated to be the right, and the left to be the left, is that the only reason for this is that the nature of the side called right has been determined by its essence to be the right and not the left, and that the left side has been determined by its essence to be the left and not the right, and the noblest has been attributed to the noblest; in the same way, when it is asked why the right side has been differentiated for the movement of the highest sphere to be the right and the left side to be the left (for the reverse was also possible as the case of the planets shows), the only answer is that the noblest direction has been attributed to the noblest body, as upward movement has been attributed to fire, downward movement to earth. As to the fact that the other heavens move in two contrary movements besides the diurnal, this happens because of the necessity of this opposition of movements for the sublunary world, namely the movement of generation and corruption, and it is not of the nature of the human intellect that it should apprehend more in such discussions and in this place than what we have mentioned.

Having made this objection against the philosophers and asserted that they have no answer to it, he mentions an answer which some of the philosophers give.

Ghazali says:

Some philosophers say that since the perfection occurs through movement, from whatever side it may be, and the order of events on earth requires a diversity of movements and a determination of directions, the motive concerning them of the principle of movement lies in the approach to God and the motive of the direction of movement in the diffusion of good over the sublunary world. But we answer: ‘This is
false for two reasons. The first is: if one may imagine such a thing, let us declare that the nature of heaven demands rest, and must avoid movement and change, for this is in truth assimilation to God; for God is too exalted to change, and movement is a change, although God chose movement for the diffusion of His grace. For through it He is useful to others and it does not weigh on Him nor tire Him—so what is the objection to such a supposition?

‘The second is that events are based on the diversity of the relations which result from the diversity in the directions of the movements. Now let the first movement be a movement from the west, and let the others move from the east, then the same diversity will arise as is needed for the diversity of the relations. Why then has one direction been specially chosen, since these varieties require only the principle of variety and in this sense one direction by itself is not superior to its contrary?’

I say:

This theologian wants to indicate the cause of this from the point of view of the final cause, not of the efficient, and none of the philosophers doubts that there is here a final cause in second intention, which is necessary for the existence of everything in the sublunar world. And although this cause has not yet been ascertained in detail, nobody doubts that every movement, every progression or regression of the stars, has an influence on sublunar existence, so that, if these movements differed, the sublunar world would become disorganized. But many of these causes are either still completely unknown or become known after a long time and a long experience, as it is said that Aristotle asserted in his book On Astrological Theorems. 3

As to the general questions, it is easier to discover them, and the astrologers have indeed come to know many of them and in our own time many of these things have been apprehended which ancient nations, like the Chaldaeans and others, had already discovered.

And for this reason one cannot doubt that there is a wisdom in the existents, since it has become clear through induction that everything which appears in heaven is there through provident wisdom and through a final cause. And if there are final causes in animals, it is still more appropriate that there should be final causes in the heavenly bodies. ‘For in the case of man and animal about ten thousand signs of providence, have become known in a period of a thousand years, and it seems not impossible that in the infinite course of years much of the purpose of the heavenly bodies will come to light. ‘And we find that about these things the ancients give some mysterious indications which the initiated, that is the most highly reputed of the philosophers, know how to interpret.

As to the two reasons in Ghazali’s argument, the first, that assimilation to God would determine heaven to be at rest, since God is too exalted for movement, but that God has chosen movement because through it His grace can be diffused over transitory things—this is a faulty argument, since God is neither at rest nor moving, ‘and the motion of body is nobler for it than rest, and when an existent assimilates itself to God it assimilates itself to Him by being in the noblest of its states, which is movement. As to Ghazali’s second point, it has been answered previously.

THE SIXTEENTH DISCUSSION

LINES ON A BODY, NOR CAN AN UNLIMITED NUMBER OF THINGS BE DETERMINED BY A FINITE NUMBER OF LINES

Ghazali says:

And they assert that the heavenly angels are the souls of the heavens, and that the cherubim which are in the proximity of God are the separate intellects, which are substances subsisting by themselves which do not fill space and do not employ bodies, and that from them the individual forms emanate in the heavenly souls, and that those separate intellects are superior to the heavenly angels, because the former bestow and the latter acquire, and bestowing is superior to acquiring, and therefore the highest is symbolized by the pen' and it is said that God knows through the pen, because He is like the engraver who bestows as does the pen and the recipient is compared to the tablet. And this is their doctrine. And the discussion of this question differs from the preceding one in so far as that what we mentioned previously is not impossible, because its conclusion was that heaven is an animal moving for a purpose, and this is possible; but this doctrine amounts to the assertion that the created can know the infinite particulars, which is often regarded as impossible, and in any case, has to be proved, since by itself it is a mere presumption.

I say:

What he mentions here is, to my knowledge, not said by any philosophers except Avicenna, namely that the heavenly bodies have representations, not to speak of the fact that these representations should be infinite, and Alexander of Aphrodisias explains in his book called The Principles of the Universe that these bodies have no representations, because representations exist only in animals because of their conservation, and these bodies do not fear corruption, and with respect to them representations would be valueless (and likewise sensations). If they had representations they would also have sensations, since sensations are the condition for representations and every being which has representations necessarily has sensations, although the reverse is not true. Therefore to interpret the indelible tablet in the way Ghazali says that they do is not correct, and the only possible interpretation of the separate intellects which move the different spheres by means of subordination is that they are the angels in the proximity of God, s if one wants to harmonize the conclusions of reason with the statements of the Holy Law.

Ghazali says:

And they prove this by saying that the circular movement is voluntary and that the will follows the thing willed, b and that a universal thing willed can only be intended by a universal will, and that from the universal will nothing proceeds. For-so they say-every actual existent is determined and individual, and the relation of the universal will to the individual units is one and the same, and no individual thing proceeds from it. Therefore an individual will is needed for a definite movement. For every particular movement from every definite point to another definite point the sphere has a will, and this sphere no doubt has a representation of this particular movement through a bodily potency, since individuals only perceive through bodily potencies and every will must of necessity represent the thing willed, i. e. must know it, be it an individual or a universal. And if the sphere has a representation and a comprehension of the particular movements, it must of necessity also comprehend what follows from them through the diversity of their relations to the earth, because some of the individuals of the sphere are rising, some setting, some in the middle of the sky for some people and under the earth for others.

And likewise it must know the consequences of the diversity of those relations which always arise anew through the movement, like trine and sextile, opposition and conjunction, to other such heavenly occurrences; and all earthly occurrences depend on heavenly occurrences either directly, or through one intermediary, or through many; and in short every event has a cause, occurring in a concatenation which terminates in the eternal heavenly movement, some parts of which are the causes of others.

Thus the causes and effects ascend in their concatenation to the particular heavenly movements, and the sphere representing the movements represents their consequences
and the consequences of their consequences, so as to reach the end of the series. And therefore the sphere observes everything that occurs and everything that will occur, and its occurrence is necessary through its cause, and whenever the cause is realized, the effect is realized. We only do not know the future events because all their causes are not known to us; for if we knew all the causes, we should know all the effects, for when we know, for instance, that fire will come into contact with cotton at a certain moment, we know that the cotton will burn, and when we know that a man will eat, we know that his appetite will be satisfied, and when we know that a man will walk over a certain spot lightly covered where a treasure is buried, and his feet will accidentally touch the treasure and he will perceive it, we know that he will be rich because of this treasure. Only as a matter of fact we do not know these causes. Sometimes we know part of the causes, and then we guess what may happen, and when we know the more important or the greater part of them, we have a sound opinion about the occurrence of these events; but if we knew all the causes, then we should know all the effects. However, the heavenly occurrences are many and, besides, they are mixed up with earthly events and it is not in human power to observe the causality of all these. But the souls of the heavens perceive it through their perception of the First Cause and through the observation of their consequences and the consequences of their consequences, to the end of their concatenation.

And therefore they say that the man who dreams sees in his dream what will happen in the future through being in contact with the indelible tablet and observing it. And when he observes a thing it remains often in his memory as it really was, but sometimes his imagination hastens to symbolize it, for it is of the nature of this faculty to represent things through things which, in some way or another, are related to them, or to transfer things to their opposites; and the thing that was perceived is then effaced in his memory, but the image belonging to his imagination remains there. Then it is necessary to interpret what his imagination symbolizes, e.g. a man by means of a tree, a woman by means of a shoe, a servant by means of some household vessels, and a man who observes the paying of the legal alms and the poor-tax by means of linseed oil, for the linseed in the lamp is the cause of the illumination; it is on this principle that the interpretation of dreams is based.

And they assert that contact with these souls takes place in a state of languor, since then there is no obstacle; for when we are awake we are occupied with what the senses and our passions convey to us, and occupation with those sensual things keeps us away from this contact, but when in sleep some of these occupations are obliterated, the disposition for this contact appears. And they assert that the prophet Muhammad perceived the hidden universe in this way; however, the spiritual faculty of a prophet has such power that it cannot be overwhelmed by the external senses, and therefore he sees in a waking condition what other people perceive in their sleep. “But his imagination also pictures to him what he sees, and although sometimes the thing he sees remains in his memory exactly as it was, sometimes only its representation remains, and such an inspiration is just as much in need of interpretation as such dreams are. And if all events were not eternally inscribed on the indelible tablet, the prophets would not know the hidden world either awake or asleep; but the pen has indelibly fixed what shall be till the day of resurrection, and the meaning of this we have explained. And this we wanted to impart to make their doctrine understood.

I say:

We have already said that we do not know of anyone who holds this theory but Avicenna. And the proof which Ghazali relates rests on very weak premisses, although it is persuasive and dialectical. For it is assumed that every particular effect proceeds from an animate being through the particular representation of this effect and of the particular movements through which this effect is realized. To this major premiss a minor premiss is joined, that heaven is an animate being from which particular acts proceed. From these premisses it is concluded that the particular effects, and the particular acts which proceed from heaven, occur through a particular representation which is called imagination; and that this is not only apparent from the different sciences, but also from many animals which
perform particular acts, like the bees and the spider.

But the objection to these premisses is that no particular act proceeds from beings endowed with intellect, except when this act is represented through a universal representation, and then endless individual things proceed from it—for instance the form of a cupboard proceeds from a carpenter only through a universal representation which does not distinguish one particular cupboard from another. And the same thing happens when the works of animals proceed by nature from them. And these representations are an intermediary between the universal and the particular perceptions; that is, they are an intermediary between the definition of a things and its particular representation. But if the heavenly bodies have representations, then they must have representations that are of the nature of the universal, not of the nature of the particular representation which is acquired through the senses. And it is not possible that our acts should proceed from particular representations, and therefore the philosophers believe that the represented forms from which the definite acts of animals proceed are like an intermediary between the intelligibles and the individual forms represented, e.g. the form by reason of which non-carnivorous birds flee from birds of prey, and the form by reason of which bees build their cells. If the only artisan who needs an individual sensible image is the one who does not possess this universal representation, which is necessary for the origination of the individual things.

It is this universal image which is the motive power for the universal will which does not aim at a particular individual; and it is the individual will which aims at a particular individual of one and the same species—this, however, does not happen in the heavenly bodies.

And that a universal will should exist for a universal thing in so far as it is universal is impossible, since the universal does not exist outside the soul and has no transitory existence. And his primary division of will into a universal and an individual will is, indeed, not correct; otherwise one must say that the heavenly bodies move towards the definite limits of things without the definite limit being accompanied by the representation of an individual existent, in contrast to what happens with us. And his assertion that no individual is realized through the universal will is false, if by ‘universal will’ is understood that which does not distinguish one individual from another, but represents it universally, as is the case with a king who arranges his armies for battle. If, however, there is understood by ‘will’ its being attached to a universal entity itself, then it must be said that such an attachment is not a will at all, and there does not exist such a will except in the way we have explained.

And if it followed from the nature of the heavenly bodies that they think sublunary things by way of imagination, they must do this through universal imaginations which are the results of definition, not through particular imaginations which are the results of senseimpressions. And it seems quite clear that they cannot think sublunary things through individual representations especially when it is said that what proceeds from them proceeds from them by second intention. However, the doctrine of the philosophers is that the heavenly bodies think themselves and think the sublunary world, and whether they think the sublunary world as something different from themselves is a problem that must be examined in places specially reserved for this problem; and in general, if the heavens know, the term ‘knowledge’ is attributed to our knowledge and theirs in an equivocal way.

As to the theory he gives here about the cause of revelation and dreams, this is the theory of Avicenna alone, and the opinions of the ancient philosophers differ from his. For the existence of a knowledge of individuals actually infinite, in so far as it is an individual knowledge, is impossible, and I understand by individual knowledge that kind of apprehension which is called representation. But there is no reason to introduce here the question of dreams and revelation, for this leads to much controversy, and such an act is an act of sophistry, not of dialectics. My statement, however, that the imaginations of the heavenly bodies are imaginations intermediary between individual and universal representations is a dialectical argument; for what results from the principle of the philosophers is that the heavenly bodies have no imagination whatever, for these imaginations, as we have said already, whether they are universal or particular, aim only at conservation and protection; and they are also a condition for our intellectual representation, which therefore is transitory, but the intellectual representation of the heavenly bodies, since it is not transitory, cannot be accompanied by imagination, for otherwise it would depend in one way or another on imagination. Therefore their apprehension is neither universal nor individual, but these two kinds of knowledge, universal and individual, are here unified, and because of this they can only be distinguished by their matters. And in this way knowledge of the occult and of dreams and the like can be acquired, and this will be explained perfectly in its proper place.
Ghazali says:

And the answer is for us to ask: How will you refute those who say that the prophet knows the occult through God, who shows it to him by way of revelation, and the same is the case with the man who has visions in his sleep, which he only sees because God or an angel inspires them in him? We do not need any of the things you have related, and you have not the slightest proof for introducing the Holy Law by mentioning the Tablet and the Pen; for true believers do not in the least understand by ‘the Tablet’ and ‘the Pen’ what you have mentioned, and the way to embrace the religious dogmas is not to refuse to admit them in the way they must be understood. And, although the possibility of what you have said is granted, so long as you cannot indicate why you deny the correctness of the sense in which these religious terms are understood, the reality of what you say—cannot be known or verified. Indeed, the only way to arrive at knowledge of such things is through the Holy Law, not by reason. The rational proof of what you have said is primarily based on many premisses, the refutation of which need not detain us, but we shall limit ourselves to the discussion of three propositions.

The first proposition is that you say that the movement of heaven is voluntary, and we have already settled this problem and shown the futility of your claim.

If, however, to oblige you the grant you this voluntary movement, the second proposition is your saying that heaven needs a particular representation for each particular movement, and this we do not concede. For according to you there are no parts in the sphere, which is one single thing and is only divided in imagination; nor are there particular movements, for there is only one continuous movement, and in order to complete all the places possible for it, it is sufficient for the sphere to desire this one movement, as you have indicated yourselves, and it will only need universal representation and a universal will.

Let us give all example of the universal and the particular will to make the intention of the philosophers clear. When, for instance, a man has a universal aim to make the pilgrimage to Mecca, from this universal will no movement follows, ‘for the movement occurs as a particular movement, in a particular direction, and of a particular extent, and the man does not cease, in directing himself to Mecca, to form new representations of the place one after another, where he will go and the direction lie will take, and every particular representation will be followed by a particular will to move from the place which lie has reached by his movement. And this is what they understood by a particular movement which follows a particular will; and this is granted, for the directions, when lie takes the road to Mecca, are many, and the distance is undetermined, and lie must determine place after place and direction after direction, passing from one particular will to another.

But the heavenly movement has only one direction, for it is a sphere and moves oil its axis in its own space, going neither beyond its own space nor beyond the movement willed. There is therefore only one direction and one impulse and one aim, like the downward movement of the stone, which tends towards the earth in the shortest way, and the shortest way is the straight line, and the straight line is determined, ‘and therefore this movement needs no new cause besides the universal nature which tends to the centre of the earth while it changes its distance from the earth, and arrives at and departs from one definite place after another. In the same way the universal will suffices for this movement, and nothing else is required, and the assumption of this proposition is a mere presumption.

I say:

As to Ghazali’s words:

And the answer is for us to ask: How will you refute those who say . . . . We do not need any of the things you have related. This answer is based on tradition, not on reason, and there is no sense in introducing it in this book. The philosophers examine everything there is in the Holy Law, and, if it is found to agree with reason, we arrive at a more perfect knowledge; if, however, reason does riot perceive its truth, it becomes known that human reason cannot attain it, and that only the Holy Law
perceives it. Ghazali’s argument against the philosophers about the interpretation of the Tablet and the Pen does not belong to the problem under discussion, and there is therefore no sense in introducing it here. And this interpretation of knowledge of the occult, according to Avicenna, leas no sense.

The rational objection he adduces against Avicenna over this problem is well founded. For there are for heaven no particular motions of particular distances that would require imagination. The animate being which moves through particular motions in particular spaces imagines, no doubt, these spaces towards which it moves, and these movements, when it cannot visually perceive these distances; the circular, however, as Ghazali says, moves qua circular in one single movement, although from this one movement there follow many different particular motions in the existents below it. These spheres, however, are not concerned with those particular movements, but their only intention is to conserve the species of which these particulars are the particulars, not to conserve the existence of any of these particulars in so far as they are particulars, for, if so, heaven would surely possess imagination.

The question that still needs to be examined is whether the temporal particulars which proceed from the heavenly movement are intended for their own sake or only for the preservation of the species. This question cannot be treated here, but it certainly seems that there exists a providence as concerns individuals, as appears from true dreams and the like, e.g. the prognostication of the future; however, in reality this is a providence concerning the species.

Ghazali says:

The third proposition—and this indeed is a very bold presumption—is that they say that, when heaven represents particular movements, it also represents their results and consequences. This is pure nonsense, like saying that, when a man moves himself and knows his movement, he must also know the consequences of his movement vertically and horizontally (that is, the bodies which are above and under him and at his side), and when he moves in the sun he must know the places upon which his shadow falls and does not fall, and what happens through the coolness of his shadow because of the interruption of the rays of the sun there, and what happens through the compression of the particles of earth under his foot, and what happens through the separation of these particles, and what happens to the humours inside him by their changing through his movement into warmth, and which parts of him are changed into sweat, and so on, till he knows all the occurrences inside and outside his body of which the movement is the cause or the condition or the disposition or the aptitude. And this is nonsense which no intelligent man can believe, and by which none but the ignorant can be beguiled. And this is what this presumption amounts to.

Besides, we may ask: ‘Are these different particulars which are known to the soul of the sphere the events which are occurring at the present moment or are future events also brought in relation to it? ‘ If you limit its knowledge to present events you deny its perception of the occult and the apprehension of future events through it, by the prophets in the state of wakefulness, by others in their sleep; and then the point of this proof disappears. For it is indeed presumption to say that he who knows a thing knows its consequences and results, so that if we knew all causes we should also know all future events. For, indeed, the causes of all events are to be found at present in the heavenly movement, but it determines the effect either through one intermediary or through many. And if this knowledge covers the future also, it will not have an end, and how can the distinction between particulars in the infinite future be known, and how can many different particular objects of knowledge, of an infinite number and without an end to their units, be collected in a created soul, at one and the same moment without any sequence? ‘ He whose intellect does not perceive the impossibility of this may well despair of his intellect.

And if they reverse this against us with respect to God’s knowledge, God’s knowledge is not attached to its object in its correspondence with the things known, in the way this attachment exists in the case of things known by created beings, but as soon as the soul of the sphere moves round like the soul of man, ‘ it belongs to the same kind as the soul of man, and also it participates with the soul of man in the perception of individuals through an intermediary. And although no absolute
knowledge can be had about this, it is most probable that the soul of the sphere is of the same kind as the human soul; and if this is not most probable, it is possible, and the possibility destroys the claim to absolute knowledge they put forward.

And if it is said, ‘It is also proper to the human soul in its essence to perceive all things, but its preoccupation with the consequences of passion, anger, greed, resentment, envy, hunger, pain, and in short the accidents of the body and what the sensations convey to the body, is so great that, when the human soul is occupied with one of these things, it neglects everything else; but the souls of the spheres are free from these attributes, and nothing occupies them, and neither care nor pain nor perception overwhelms them, and therefore they know everything’-we answer: ‘How do you know that nothing occupies them? Does not their service of the First and their longing for Him submerge them and keep them from the representation of particular things? And what makes it impossible to suppose other impediments than anger and passion? For these are sensual hindrances, and how do you know that these hindrances are limited in the way we experience them? For there are occupations for the learned through the excellence of their interests and the desire for leadership which children are unable to imagine, and which they cannot believe to be occupations and hindrances. ‘And how do you know that analogous things are impossible for the souls of the spheres?’

This is what we wanted to mention about those sciences to which they give the name of metaphysical.

I say:

As to his regarding it as impossible that there should exist an immaterial intellect which thinks things with their consequences, comprising them all, neither the impossibility nor the necessity of its existence is a self-evident fact, but the philosophers affirm that they have a proof of its existence. As to the existence of infinite representations, this cannot be imagined in any individual, but the philosophers affirm that they have a proof of the existence of the infinite in the eternal knowledge and an answer to the question how man can attain knowledge of particular events in the future through the eternal knowledge, namely that of these things the soul thinks only the universal which is in the intellect, not the particular which is particularized in the soul. For individuals are known to the soul because it is potentially all existents, and what is in potency emerges into act either through the sensible things or through the nature of the intellect, which is prior to sensible things in reality (I mean the intellect through which sensible things become stable intelligibles, not, however, in such a way that in this knowledge there are representations of an infinite number of individuals). ‘In short, the philosophers assert that these two kinds of knowledge, the universal and the particular, are unified in the knowledge which is separated from matter; and when this knowledge emanates in the sublunary world it divides itself into universal and particular, although this knowledge itself is neither the one nor the other. But the proof of this or its contrary cannot be given here. And the discussion here about these questions is like the assumption of geometrical propositions which are not well enough known to meet with immediate assent and which are not convincing at first sight. And Ghazali mixes one part with another, i.e. lie starts objecting to one part of the theory through another, and this is the worst method of discussion, because in this way assent neither by proof nor by persuasion can be obtained.

Likewise the problems about the differences between the souls of the heavenly bodies and the soul of man are all very obscure, and when such things are discussed in a place not proper to them the discussion becomes either irrelevant or dialectical and superficial; that is to say, the conclusions are drawn from possible premisses, like their assertion that the irascible and the concupiscible soul hinder the human soul in the perception of what is proper to it. It appears from the nature of these and similar sayings that they are possible and are in need of proofs, and that they open the way to many conflicting possibilities.

And this closes what we decided to mention of the different assertions which this book contains about theological problems; this is the most important part of our book. We shall now speak on physical problems.
ABOUT THE NATURAL SCIENCES

Ghazali says:

The so-called natural sciences are many, and we shall enumerate their parts, in order to make it known that the Holy Law does not ask one to contest and refute them, except in certain points we shall mention. ' They are divided into principal classes and subdivisions The principal classes are eight. In the first class are treated the divisibility, movement, and change which affect body in so far as it is body, and the relations and consequences of movement like time, space, and void, ' and all this is contained in Aristotle’s Physics. The second treats of the disposition of the parts of the elements of the world, namely heaven and the four elements which are within the sphere of the moon, and their natures and the cause of the disposition of each of them in a definite place; and this is contained in Aristotle’s De coelo. The third treats of the conditions of generation and corruption, of equivocal generation and of sexual generation, of growth and decay, of transmutations, and how the species are conserved, whereas the individuals perish through the two heavenly movements (westwards and eastwards), and this is contained in De generatione et corruptione. The fourth treats of the conditions which are found in the four elements through their mixture, by which there occur meteorological phenomena like clouds and rain and thunder, lightning, the halo round the moon, the rainbow, thunderbolts, winds, and earthquakes. The fifth treats of mineralogy, the sixth of botany. The seventh treats of zoology, which is contained in the book Historia animalium. The eighth treats of the soul of animals and the perceptive faculties, and says that the soul of man does not die through the death of his body but that it is a spiritual substance for which annihilation is impossible.

The subdivisions are seven: The first is medicine, whose end is the knowledge of the principles of the human body and its conditions of health and illness, their causes and symptoms, so that illness may be expelled and health preserved. The second, judicial astrology, which conjectures from the aspects and configuration of the stars the conditions which will be found in the world and in the State and the consequences of dates of births and of years. The third is physiognomy, which infers character from the external appearance.' The fourth is dream-interpretation, which infers what the soul has witnessed of the world of the occult from dream images, for the imaginative faculty imagines this symbolically. The fifth is the telesmatical art, that is the combination of celestial virtues with some earthly so as to constitute a power which can perform marvellous acts in the earthly world . The sixth is the art of incantation, which is the mixing of the virtues of earthly substances to produce marvellous things from them. ' The seventh is alchemy, whose aim is to change the properties of minerals so that finally gold and silver are produced by a kind of magic. , And there is no need to be opposed to any of these sciences by reason of the Divine Law; we dissent from the philosophers in all these sciences in regard to four points only.

I say:

As to his enumeration of the eight kinds of physical science, this is exact according to the doctrine of Aristotle. But his enumeration of the subdivisions is not correct. Medicine is not one of the natural sciences, but is a practical science which takes its principles from physical science; for physical science is theoretical and medicine is practical, and when we study a problem common to theoretical science and practical we can regard it from two points of view; for instance, in our study of health and illness the student of physics observes health and nature as kinds of natural existents, whereas the physician studies them with the intention of preserving the one, health, and keeping down the other, illness. Neither does judicial astrology belong to physical science; it is only a prognostication of future events, and is of the same type as augury and vaticination. Physiognomy is also of the same kind, except that its object is occult things in the present, not in the future. , The interpretation of dreams too is a prognosticating science, and this type belongs neither to the theoretical nor to the practical sciences, although it is reputed to have a practical value. The telesmatical art is vain, for if
we assume the positions of the spheres to exert a power on artificial products, this power will
remain inside the product and not pass on to things outside it. As to conjuring, this is the type of thing
that produces wonder, but it is certainly not a theoretical science. Whether alchemy really exists is
very dubious; if it exists, its artificial product cannot be identical with the product of nature; art can at
most become similar to nature but cannot attain nature itself in reality. As to the question whether it
can produce anything which resembles the natural product generically, we do not possess sufficient
data to assert categorically its impossibility or possibility, but only prolonged experiments over a
lengthy period can procure the necessary evidence. We shall treat the four points Ghazali mentions
one after the other.

Ghazali says:

The first point is their assertion that this connexion observed between causes and
effects is of logical necessity, and that the existence of the cause without the effect or
the effect without the cause is not within the realm of the contingent and possible. The
second point is their assertion that human souls are substances existing by themselves,
not imprinted on the body, and that the meaning of death is the end of their
attachment to the body and the end of their direction of the body; and that otherwise
the soul would exist at any time by itself. They affirm that this is known by
demonstrative proof. The third point is their assertion that these souls cannot cease to
exist, but that when they exist they are eternal and their annihilation cannot be
conceived. The fourth point is their assertion that these souls cannot return to their
bodies.

As to the first point, it is necessary to contest it, for on its negation depends the
possibility of affirming the existence of miracles which interrupt the usual course of
nature, like the changing of the rod into a serpent or the resurrection of the dead or
the cleavage of the moon, and those who consider the ordinary course of nature a
logical necessity regard all this as impossible. They interpret the resurrection of the
death in the Qur’an by saying that the cessation of the death of ignorance is to be
understood by it, and the rod which conceived the arch-deceiver, the serpent, by saying
that it means the clear divine proof in the hands of Moses to refute the false doctrines
of the heretics; and as to the cleavage of the moon they often deny that it took place
and assert that it does not rest on a sound tradition; and the philosophers accept
miracles that interrupt the usual course of nature only in three cases.

First: in respect to the imaginative faculty they say that when this faculty becomes
predominant and strong, and the senses and perceptions do not submerge it, it observes
the Indelible Tablet, and the forms of particular events which will happen in the future
become imprinted on it; and that this happens to the prophets in a waking condition
and to other people in sleep, and that this is a peculiar quality of the imaginative
faculty in prophecy.

Secondly: in respect of a property of the rational speculative faculty i.e.
intellectual acuteness, that is rapidity in passing from one known thing to another; for
often when a problem which has been proved is mentioned to a keen-sighted man he is
at once aware of its proof, and when the proof is mentioned to him he understands
what is proved by himself, and in general when the middle term occurs to him he is at
once aware of the conclusion, and when the two terms of the conclusion are present in
his mind the middle term which connects the two terms of the conclusion occurs to
him. And in this matter people are different; there are those who understand by
themselves, those who understand when the slightest hint is given to them, and those
who, being instructed, understand only after much trouble; and while on the one hand
it may be assumed that incapacity to understand can reach such a degree that a man
does not understand anything at all and has, although instructed, no disposition
whatever to grasp the intelligibles, it may on the other hand be assumed that his
capacity and proficiency may be so great as to arrive at a comprehension of all the
intelligibles or the majority of them in the shortest and quickest time. And this
difference exists quantitatively over all or certain problems, and qualitatively so that
there is an excellence in quickness and easiness, and the understanding of a holy and
pure soul may reach through its acuteness all intelligibles in the shortest time possible; and this is the soul of a prophet, who possesses a miraculous speculative faculty and so far as the intelligibles are concerned is not in need of a teacher; but it is as if he learned by himself, and he it is who is described by the words ‘the oil of which would well-nigh give light though no fire were in contact with it, light upon light’.

Thirdly: in respect to a practical psychological faculty which can reach such a pitch as to influence and subject the things of nature: for instance, when our soul imagines something the limbs and the potencies in these limbs obey it and move in the required direction which we imagine, so that when a man imagines something sweet of taste the corners of his mouth begin to water, and the potency which brings forth the saliva from the places where it is springs- into action, and when coitus is imagined the copulative potency springs into action, and the penis extends; 2 indeed, when a man walks on a plank between two walls over an empty space, his imagination is stirred by the possibility of falling and his body is impressed by this imagination and in fact he falls, but when this plank is on the earth, he walks over it without falling. 3 This happens because the body and the bodily faculties are created to be subservient and subordinate to the soul, and there is a difference here according to the purity and the power of the souls. And it is not impossible that the power of the soul should reach such a degree that also the natural power of things outside a man’s body obeys it, since the soul of man is not impressed on his body although there is created in man’s nature a certain impulse and desire to govern his body. And if it is possible that the limbs of his body should obey him, it is not impossible that other things besides his body should obey him and that his soul should control the blasts of the wind or the downpour of rain, or the striking of a thunderbolt or the trembling of the earth, which causes a land to be swallowed up with its inhabitants. s The same is the case with his influence in producing cold or warmth or a movement in the air; this warmth or cold comes about through his soul, b all these things occur without any apparent physical cause, and such a thing will be a miracle brought about by a prophet. But this only happens in matters disposed to receive it, and cannot attain such a scale that wood could be changed into an animal or that the moon, which cannot undergo cleavage, could be cloven. This is their theory of miracles, and we do not deny anything they have mentioned, and that such things happen to prophets; we are only opposed to their limiting themselves to this, and to their denial of the possibility that a stick might change into a serpent, and of the resurrection of the dead and other things. We must occupy ourselves with this question in order to be able to assert the existence of miracles and for still another reason, namely to give effective support to the doctrine on which the Muslims base their belief that God can do anything. And let us now fulfil our intention.

I say:

The ancient philosophers did not discuss the problem of miracles, since according to them such things must not be examined and questioned; for they are the principles of the religions, and the man who inquires into them and doubts them merits punishment, like the man who examines the other general religious principles, such as whether God exists or blessedness or the virtues. For the existence of all these cannot be doubted, and the mode of their existence is something divine which human apprehension cannot attain. The reason for this is that these are the principles of the acts through which man becomes virtuous, and that one can only attain knowledge after the attainment of virtue. 4 One must not investigate the principles which cause virtue before the attainment of virtue, and since the theoretical sciences can only be perfected through assumptions and axioms which the learner accepts in the first place, this must be still more the case with the practical sciences.

As to what Ghazali relates of the causes of this as they are according to the philosophers, I do not know anyone who asserts this but Avicenna. And if such facts are verified and it is possible that a body could be changed qualitatively through something which is neither a body nor a bodily potency, ‘ then the reasons he mentions for this are possible; but not everything which in its nature is possible’ can be done by man, for what is possible to man is well known. Most things which are possible in themselves are impossible for man, and what is true of the prophet, that he can interrupt the ordinary
course of nature, is impossible for man, but possible in itself; and because of this one need not
assume that things logically impossible are possible for the prophets, and if you observe those
miracles whose existence is confirmed, you will find that they are of this kind. The clearest of
miracles is the Venerable Book of Allah, s the existence of which is not an interruption of the course
of nature assumed by tradition, like the changing of a rod into a serpent, but its miraculous nature is
established by way of perception and consideration for every man who has been or who will be till
the day of resurrection. And so this miracle is far superior to all others.

Let this suffice for the man who is not satisfied with passing this problem over in silence, and may
he understand that the argument on which the learned base their belief in the prophets is another, to
which Ghazali himself has drawn attention in another place , b namely the act which proceeds from
that quality through which the prophet is called prophet, that is the act of making known the
mysterious and establishing religious laws which are in accordance with the truth and which bring
about acts that will determine the happiness of the totality of mankind. I do not know anyone but
Avicenna who has held the theory about dreams Ghazali mentions. The ancient philosophers assert
about revelation and dreams only that they proceed from God through the intermediation of a spiritual
incorporeal being which is according to them the bestower of the human intellect, and which is called
by the best authors the active intellect and in the Holy Law angel. We shall now return to Ghazali’s
four points.

THE FIRST DISCUSSION

Ghazali says:

According to us the connexion between what is usually believed to be a cause and
what is believed to be an effect is not a necessary connexion; each of two things has its
own individuality and is not the other, ‘ and neither the affirmation nor the negation,
neither the existence nor the non-existence of the one is implied in the affirmation,
negation, existence, and non-existence of the other-e. g. the satisfaction of thirst does
not imply drinking, nor satiety eating, nor burning contact with fire, nor light sunrise,
nor decapitation death, nor recovery the drinking of medicine, nor evacuation the
taking of a purgative, and so on for all the empirical connexions existing in medicine,
astronomy, the sciences, and the crafts. For the connexion in these things is based on a
prior power of God to create them in a successive order, though not because this
connexion is necessary in itself and cannot be disjoined-on the contrary, it is in God’s
power to create satiety without eating, and death without decapitation, and to let life
persist notwithstanding the decapitation, and so on with respect to all connexions. The
philosophers, however, deny this possibility and claim that that is impossible. To
investigate all these innumerable connexions would take us too long, and so we shall
choose one single example, namely the burning of cotton through contact with fire; for
we regard it as possible that the contact might occur without the burning taking place,
and also that the cotton might be changed into ashes without any contact with fire,
although the philosophers deny this possibility. The discussion of this matter has three
points.

The first is that our opponent claims that the agent of the burning is the fire
exclusively;’ this is a natural, not a voluntary agent, and cannot abstain from what is in
its nature when it is brought into contact with a receptive substratum. This we deny,
saying: The agent of the burning is God, through His creating the black in the cotton
and the disconnexion of its parts, and it is God who made the cotton burn and made it
ashes either through the intermediation of angels or without intermediation. For fire is
a dead body which has no action, and what is the proof that it is the agent? Indeed, the
philosophers have no other proof than the observation of the occurrence of the burning,
when there is contact with fire, but observation proves only a simultaneity, ‘ not a causation, and, in reality, there is no other cause but God . For there is unanimity
of opinion about the fact that the union of the spirit with the perceptive and moving
faculties in the sperm of animals does not originate in the natures contained in warmth,
cold, moistness, and dryness, and that the father is neither the agent of the embryo

http://www.muslimphilosophy.com/ir/tt/tt-all.htm

4/14/2009
through introducing the sperm into the uterus, nor the agent of its life, its sight and hearing, and all its other faculties. And although it is well known that the same faculties exist in the father, still nobody thinks that these faculties exist through him; no, their existence is produced by the First either directly or through the intermediation of the angels who are in charge of these events. Of this fact the philosophers who believe in a creator are quite convinced, but it is precisely with them that we are in dispute.

It has been shown that coexistence does not indicate causation. We shall make this still more clear through an example. Suppose that a man blind from birth, whose eyes are veiled by a membrane and who has never heard people talk of the difference between night and day, has the membrane removed from his eyes by day and sees visible things, he will surely think then that the actual perception in his eyes of the forms of visible things is caused by the opening of his eyelids, and that as long as his sight is sound and in function, the hindrance removed and the object in front of him visible, he will, without doubt, be able to see, and he will never think that he will not see, till, at the moment when the sun sets and the air darkens, he will understand that it was the light of the sun which impressed the visible forms on his sight. And for what other reason do our opponents believe that in the principles of existences there are causes and influences from which the events which coincide with them proceed, than that they are constant, do not disappear, and are not moving bodies which vanish from sight? For if they disappeared or vanished we should observe the disjunction and understand then that behind our perceptions there exists a cause. And out of this there is no issue, according to the very conclusions of the philosophers themselves.

The true philosophers were therefore unanimously of the opinion that these accidents and events which occur when there is a contact of bodies, or in general a change in their positions, proceed from the bestower of forms who is an angel or a plurality of angels, so that they even said that the impression of the visible forms on the eye occurs through the bestower of forms, and that the rising of the sun, the soundness of the pupil, and the existence of the visible object are only the preparations and dispositions which enable the substratum to receive the forms; and this theory they applied to all events. And this refutes the claim of those who profess that fire is the agent of burning, bread the agent of satiety, medicine the agent of health, and so on.

I say:

To deny the existence of efficient causes which are observed in sensible things is sophistry, and he who defends this doctrine either denies with his tongue what is present in his mind or is carried away by a sophistical doubt which occurs to him concerning this question. For he who denies this can no longer acknowledge that every act must have an agent. The question whether these causes by themselves are sufficient to perform the acts which proceed from them, or need an external cause for the perfection of their act, whether separate or not, is not self-evident and requires much investigation and research. And if the theologians had doubts about the efficient causes which are perceived to cause each other, because there are also effects whose cause is not perceived, this is illogical. Those things whose causes are not perceived are still unknown and must be investigated, precisely because their causes are not perceived; and since everything whose causes are not perceived is still unknown by nature and must be investigated, it follows necessarily that what is not unknown has causes which are perceived. The man who reasons like the theologians does not distinguish between what is self-evident and what is unknown, and everything Ghazali says in this passage is sophistical.

And further, what do the theologians say about the essential causes, the understanding of which alone can make a thing understood? For it is self-evident that things have essences and attributes which determine the special functions of each thing and through which the essences and names of things are differentiated. If a thing had not its specific nature, it would not have a special name nor a definition, and all things would be one-indeed, not even one; for it might be asked whether this one has one special act or one special passivity or not, and if it had a special act, then there would indeed exist special acts proceeding from special natures, but if it had no single special act, then the one would not be one. But if the nature of oneness is denied, the nature of being is denied, and the consequence of the denial of being is nothingness.
Further, are the acts which proceed from all things absolutely necessary for those in whose nature it lies to perform them, or are they only performed in most cases or in half the cases? I This is a question which must be investigated, since one single action-and passivity between two existent things occurs only through one relation out of an infinite number, and it happens often that one relation hinders another. Therefore it is not absolutely certain that fire acts when it is brought near a sensitive body, for surely it is not improbable that there should be something which stands in such a relation to the sensitive thing as to hinder the action of the fire, as is asserted of talc and other things. But one need not therefore deny fire its burning power so long as fire keeps its name and definition.

Further, it is self-evident that all events have four causes, agent, form, matter, and end, and that they are necessary for the existence of the effects-especially those causes which form a part of the effect, namely that which is called by the philosophers matter, by the theologians condition and substratum, and that which is called by the philosophers form, by the theologians psychological quality. The theologians acknowledge that there exist conditions which are necessary to the conditioned, as when they say that life is a condition of knowledge; and they equally recognize that things have realities and definitions, and that these are necessary for the existence of the existent, and therefore they here judge the visible and the invisible according to one and the same scheme. And they adopt the same attitude towards the consequences of a thing’s essence, namely what they call ‘sign’, as for instance when they say that the harmony in the world indicates that its agent possesses mind and that the existence of a world having a design indicates that its agent knows this world? Now intelligence is nothing but the perception of things with their causes, and in this it distinguishes itself from all the other faculties of apprehension, and he who denies causes must deny the intellect. Logic implies the existence of causes and effects, and knowledge of these effects can only be rendered perfect through knowledge of their causes. Denial of cause implies the denial of knowledge, and denial of knowledge implies that nothing in this world can be really known, and that what is supposed to be known is nothing but opinion, that neither proof nor definition exist, and that the essential attributes which compose definitions are void. The man who denies the necessity of any item of knowledge must admit that even this, his own affirmation, is not necessary knowledge.

As to those who admit that there exists, besides necessary knowledge, knowledge which is not necessary, about which the soul forms a judgement on slight evidence and imagines it to be necessary, whereas it is not necessary, the philosophers do not deny this. And if they call such a fact ‘habit’ this may be granted, but otherwise I do not know what they understand by the term ‘habit’-whether they mean that it is the habit of the agent, the habit of the existing things, or our habit to form a judgement about such things? It is, however, impossible that God should have a habit, for a habit is a custom which the agent acquires and from which a frequent repetition of his act follows, whereas God says in the Holy Book: ‘Thou shalt not find any alteration in the course of God, and they shall not find any change in the course of God. ‘If they mean a habit in existing things, habit can only exist in the animated;; if it exists in something else, it is really a nature, and it is not possible that a thing should have a nature which determined it either necessarily or in most cases. If they mean our habit of forming judgements about things, such a habit is nothing but an act of the soul which is determined by its nature and through which the intellect becomes intellect. The philosophers do not deny such a habit; but ‘habit’ is an ambiguous term, and if it is analysed it means only a hypothetical act; as when we say ‘So-and-so has the habit of acting in such-and-such a way’, meaning that he will act in that way most of the time. If this were true, everything would be the case only by supposition, and there would be no wisdom in the world from which it might be inferred that its agent was wise.

And, as we said, we need not doubt that some of these existents cause each other and act through each other, and that in themselves they do not suffice for their act, but that they are in need of an external agent whose act is a condition of their act, and not only of their act but even of their existence. However, about the essence of this agent or of these agents the philosophers differ in one way, although in another they agree. They all agree in this, that the First Agent is immaterial and that its act is the condition of the existence and acts of existents, and that the act of their agent reaches these existents through the intermediation of an effect of this agent, which is different from these existents and which, according to some of them, is exclusively the heavenly sphere, whereas others assume besides this sphere another immaterial existent which they call the bestower of forms.

But this is not the place to investigate these theories, and the highest part of their inquiry is this; and if you are one of those who desire these truths, then follow the right road which leads to them.
reason why the philosophers differed about the origin of the essential forms and especially of the
forms of the soul is that they could not relate them to the warm, cold, moist, and dry, which are the
causes of all natural things which come into being and pass away, whereas the materialists related
everything which does not seem to have an apparent cause to the warm, cold, moist, and dry,
affirming that these things originated through certain mixtures of those elements, just as colours and
other accidents come into existence. And the philosophers tried to refute them.

Ghazali says:

Our second point is concerned with those who acknowledge that these events
proceed from their principles, but say that the disposition to receive the forms arises
from their observed and apparent causes. However, according to them also the events
proceed from these principles not by deliberation and will, but by necessity and nature,
as light does from the sun, and the substrata differ for their reception only through the
differentiations in their disposition. For instance, a polished body receives the rays of
the sun, reflects them and illuminates another spot with them, whereas an opaque body
does not receive them; the air does not hinder the penetration of the sun’s light, but a
stone does; certain things become soft through the sun, others hard; certain things,
like the garments which the fuller bleaches, become white through the sun, others like
the fuller’s face become black: the principle is, however, one and the same, although
the effects differ through the differences of disposition in the substratum. Thus there is
no hindrance or incapacity in the emanation of what emanates from the principles of
existence; the insufficiency lies only in the receiving substrata. If this is true, and we
assume a fire that has the quality it has, and two similar pieces of cotton in the same
contact with it, how can it be imagined that only one and not the other will be burned,
as there is here no voluntary act? And from this point of view they deny that Abraham
could fall into the fire and not be burned notwithstanding the fact that the fire remained
fire, and they affirm that this could only be possible through abstracting the warmth
from the fire (through which it would, however, cease to be fire) or through changing
the essence of Abraham and making him a stone or something on which fire has no
influence, and neither the one nor the other is possible.

I say:

Those philosophers who say that these perceptible existents do not act on each other, and that their
agent is exclusively an external principle, cannot affirm that their apparent action on each other is
totally illusory, but would say that this action is limited to preparing the disposition to accept the
forms from the external principle. However, I do not know any philosopher who affirms this
absolutely; they assert this only of the essential forms, not of the forms of accidents. They all agree
that warmth causes warmth, and that all the four qualities act likewise, but in such a way that through
it the elemental fire’ and the warmth which proceeds from the heavenly bodies are conserved. The
theory which Ghazali ascribes to the philosophers, that the separate principles act by nature, not by
choice, is not held by any important philosophers; on the contrary, the philosophers affirm that that
which possesses knowledge must act by choice. However, according to the philosophers, in view of
the excellence which exists in the world, there can proceed out of two contraries only the better, and
their choice is not made to perfect their essences-since there is no imperfection in their essence-but in
order that through it those existents which have an imperfection in their nature may be perfected.

As to the objection which Ghazali ascribes to the philosophers over the miracle of Abraham, such
things are only asserted by heretical Muslims. The learned among the philosophers do not permit
discussion or disputation about the principles of religion, and he who does such a thing needs,
according to them, a severe lesson. For whereas every science has its principles, and every student of
this science must concede its principles and may not interfere with them by denying them, this is still
more obligatory in the practical science of religion, for to walk on the path of the religious virtues is
necessary for man’s existence, according to them, not in so far as he is a man, but in so far as he has
knowledge; and therefore it is necessary for every man to concede the principles of religion and invest
with authority the man who lays them down. The denial and discussion of these principles denies
human existence, and therefore heretics must be killed. Of religious principles it must be said that
they are divine things which surpass human understanding, but must be acknowledged although their
causes are unknown.
Therefore we do not find that any of the ancient philosophers discusses miracles, although they were known and had appeared all over the world, for they are the principles on which religion is based and religion is the principle of the virtues; nor did they discuss any of the things which are said to happen after death. For if a man grows up according to the religious virtues he becomes absolutely virtuous, and if time and felicity are granted to him, so that he becomes one of the deeply learned thinkers and it happens that he can explain one of the principles of religion, it is enjoined upon him that he should not divulge this explanation and should say ‘all these are the terms of religion and the wise’, conforming himself to the Divine Words, ‘but those who are deeply versed in knowledge say: we believe in it, it is all from our Lord’. 

Ghazali says:

There are two answers to this theory. The first is to say: ‘We do not accept the assertion that the principles do not act in a voluntary way and that God does not act through His will, and we have already refuted their claim in treating of the question of the temporal creation of the world. If it is established that the Agent creates the burning through His will when the piece of cotton is brought in contact with the fire, He can equally well omit to create it when the contact takes place.

I say:

Ghazali, to confuse his opponent, here regards as established what his opponent refuses to admit, and says that his opponent has no proof for his refusal. He says that the First Agent causes the burning without an intermediary He might have created in order that the burning might take place through the fire. But such a claim abolishes any perception of the existence of causes and effects. No philosopher doubts that, for instance, the fire is the cause of the burning which occurs in the cotton through the fire—not, however, absolutely, but by an external principle which is the condition of the existence of fire, not to speak of its burning. The philosophers differ only about the quiddity of this principle—whether it is a separate principle, or an intermediary between the event and the separate principle besides the fire.

Ghazali says, on behalf of the philosophers:

But it may be said that such a conception involves reprehensible impossibilities. For if you deny the necessary dependence of effects or their causes and relate them to the will of their Creator, and do not allow even in the will a particular definite pattern, but regard it as possible that it may vary and change in type, then it may happen to any of us that there should be in his presence beasts of prey and flaming fires and immovable mountains and enemies equipped with arms, without his seeing them, because God had not created in him the faculty of seeing them. And a man who had left a book at home might find it on his return changed into a youth, handsome, intelligent, and efficient, or into an animal; or if he left a youth at home, he might find him turned into a dog; or he might leave ashes and find them changed into musk; or a stone changed into gold, and gold changed into stone. And if he were asked about any of these things, he would answer: ‘I do not know what there is at present in my house; I only know that I left a book in my house, but perhaps by now it is a horse which has soiled the library with its urine and excrement, and I left in my house a piece of bread which has perhaps changed into an apple-tree. ‘ For God is able to do’ all these things, and it does not belong to the necessity of a horse that it should be created from a sperm, nor is it of the necessity of a tree that it should be created from a seed; no, there is no necessity that it should be created out of anything at all. And perhaps God creates things which never existed before; indeed, when one sees a man one never saw before and is asked whether this man has been generated, one should answer hesitantly: ‘It may be that he was one of the fruits in the market which has been changed into a man, and that this is that man. ‘ For God can do any possible thing, and this is possible, and one cannot avoid being perplexed by it; and to this kind of fancy one may yield ad infinitum, but these examples will do. 

But the answer is to say: If it were true that the existence of the possible implied that there could not be created in man any knowledge of the non-occurrence of a possible, all these consequences would follow necessarily. But we are not at a loss over any of the examples which you have brought forward. For God has created in us
the knowledge that He will not do all these possible things, and we only profess that these things are not necessary, but that they are possible and may or may not happen, and protracted habit time after time fixes their occurrence in our minds according to the past habit in a fixed impression. Yes, it is possible that a prophet should know in such ways as the philosophers have explained that a certain man will not come tomorrow from a journey, and although his coming is possible the prophet knows that this possibility will not be realized. And often you may observe even ordinary men of whom you know that they are not aware of anything occult, and can know the intelligible only through instruction, and still it cannot be denied that nevertheless their soul and conjecturing power’ can acquire sufficient strength to apprehend what the prophets apprehend in so far as they know the possibility of an event, but know that it will not happen. And if God interrupts the habitual course by causing this unusual event to happen this knowledge of the habitual is at the time of the interruption removed from their hearts and He no longer creates it. There is, therefore, no objection to admitting that a thing may be possible for God, but that He had the previous knowledge that although He might have done so He would not carry it out during a certain time, and that He has created in us the knowledge that He would not do it during that time.

I say:

When the theologians admit that the opposite of everything existing is equally possible, and that it is such in regard to the Agent, and that only one of these opposites can be differentiated through the will of the Agent, there is no fixed standard for His will either constantly or for most cases, according to which things must happen. For this reason the theologians are open to all the scandalous implications with which they are charged. For true knowledge is the knowledge of a thing as it is in reality. ‘And if in reality there only existed, in regard both to the substratum and to the Agent, the possibility of the two opposites, ; there would no longer, even for the twinkling of an eye, be any permanent knowledge of anything, since we suppose such an agent to rule existents like a tyrannical prince who has the highest power, for whom nobody in his dominion can deputize, of whom no standard or custom is known to which reference might be made. Indeed, the acts of such a prince will undoubtedly be unknown by nature, and if an act of his comes into existence the continuance of its existence at any moment will be unknown by nature.

Ghazali’s defence against these difficulties that God created in us the knowledge that these possibilities would be realized only at special times, such as at the time of the miracle, is not a true one. For the knowledge created in us is always in conformity with the nature of the real thing, since the definition of truth is that a thing is believed to be such as it is in reality. If therefore there is knowledge of these possibles, there must be in the real possibles a condition to which our knowledge refers, either through these possibles themselves or through the agent, or for both reasons-a condition which the theologians call habit. ‘And since the existence of this condition which is called habit is impossible in the First Agent, this condition can only be found in the existents, and this, as we said, is what the philosophers call nature.

The same congruity exists between God’s knowledge and the existents, although God’s knowledge of existents is their cause, and these existents are the consequence of God’s knowledge, and therefore reality conforms to God’s knowledge. If, for instance, knowledge of Zaid’s coming reaches the prophet through a communication of God, the reason why the actual happening is congruous with the knowledge is nothing but the fact that the nature of the actually existent‘, ‘is a consequence of the eternal knowledge, for knowledge qua knowledge can only refer to something which has an actualized nature. ‘I The knowledge of the Creator is the reason why this nature becomes actual in the existent which is attached to it. ‘Our ignorance of these possibles is brought about through our ignorance of the nature which determines the being or non-being of a thing. If the opposites in existents were in a condition of equilibrium, both in themselves and through their efficient causes, it would follow that they neither existed nor did not exist, or that they existed and did not exist at the same time, and one of the opposites must therefore have a preponderance in existence. And it is the knowledge of the existence of this nature which causes the actualization of one of the opposites. And the knowledge attached to this nature is either a knowledge prior to it, and this is the knowledge of which this nature is the effect, namely eternal knowledge, or the knowledge which is consequent on...
this nature, namely non-eternal knowledge. The attainment of the occult is nothing but the vision of this nature, and our acquisition of this knowledge not preceded by any proof is what is called in ordinary human beings a dream, and in prophets inspiration. The eternal will and eternal knowledge are the causes of this nature in existents. And this is the meaning of the Divine Words: ‘Say that none in the heavens or on the earth know the occult but God alone. ’This nature is sometimes necessary and sometimes what happens in most cases. ’ Dreams and inspiration are only, as we said, the announcement of this nature in possible things, and the sciences which claim the prognostication of future events possess only rare traces of the influences of this nature or constitution or whatever you wish to call it, namely that which is actualized in itself and to which the knowledge attaches itself.

Ghazali says:

The second answer-and in it is to be found deliverance from these reprehensible consequencesb-is to agree that in fire there is created a nature which burns two similar pieces of cotton which are brought into contact with it and does not differentiate between them, when they are alike in every respect. ? But still we regard it as possible that a prophet should be thrown into the fire and not burn, either through a change in the quality of the fire or through a change in the quality of the prophet, and that either through God or through the angels there should arise a quality in the fire which limited its heat to its own body, so that it did not go beyond it, but remained confined to it, keeping, however, to the form and reality of the fire, without its heat and influence extending beyond it; or that there should arise in the body of the person an attribute, which did not stop the body from being flesh and bone, but still defended it against the action of the fire. For we can see a man rub himself with talc and sit down in a lighted oven and not suffer from it; and if one had not seen it, one would deny it, and the denial of our opponents that it lies in God’s power to confer on the fire or to the body an attribute which prevents it from being burnt is like the denial of one who has not seen the talc and its effect. ' For strange and marvellous things are in the power of God, many of which we have not seen, and ‘, by should we deny their possibility and regard them as impossible?

And also the bringing back to life of the dead and the changing of a stick into a serpent are possible in the following way: matter can receive any form, and therefore earth and the other elements can be changed into a plant, and a plant, when an animal eats it, can be changed into blood, ‘ then blood can be changed into sperm , and then sperm can be thrown into the womb and take the character of an animal. , This, in the habitual course of nature, takes place over a long space of time, but why does our opponent declare it impossible that matter should pass through these different phases in a shorter period than is usual, and when once a shorter period is allowed there is no limit to its being shorter and shorter, so that these potencies can always become quicker in their action and eventually arrive at the stage of being a miracle of a prophet.

And if it is asked: ‘Does this arise through the soul of the prophet or through another principle at the instigation of the prophet? ‘-we answer: ‘Does what you acknowledge may happen through the power of the prophet’s soul, like the downpour of rain or the falling of a thunderbolt or earthquakes-does that occur through him or through another principle? What we say about the facts which we have mentioned is like what you say about those facts which you regard as possible. And the best method according to both you and us is to relate these things to God, either immediately or through the intermediation of the angels. But at the time these occurrences become real, the attention of the prophet turns to such facts, and the order of the good determines its appearance to ensure the duration of the order of religion, and this gives a preponderance to the side of existence. The fact in itself is possible, and the principle in God is His magnanimity; but such a fact only emanates from Him when necessity gives a preponderance to its existence and the good determines it, and the good only determines it when a prophet needs it to establish his prophetic office for the promulgation of the good. ‘

And all this is in accordance with the theory of the philosophers and follows from
it for them, since they allow to the prophet a particular characteristic which
distinguishes him from common people. There is no intellectual criterion for the extent
of its possibility, but there is no need to declare it false when it rests on a good
tradition and the religious law states it to be true. Now, in general, it is only the sperm
which accepts the form of animals-and it receives its animal potencies only- from the
angels, who according to the philosophers, are the principles of existents -and only a
man can be created from the sperm of a man, and only a horse from the sperm of a
horse, in so far as the actualization of the sperm through the horse determines the
preponderance of the analogous form of a horse over all other forms, and it accepts
only the form to which in this way the preponderance is given, and therefore barley
never grows from wheat or an apple from a pear. Further, we see that certain kinds of
animal are only produced by spontaneous generation from earth and never are
generated by procreation-e. g. worms, and some which are produced both
spontaneously and by procreation like the mouse, the serpent, and the scorpion, for
their generation can come also from earth. Their disposition to accept forms varies
through causes unknown to us, and it is not in human power to ascertain them, since
those forms do not, according to the philosophers, emanate from the angels by their
good pleasure or haphazard, but in every substratum only in such a way that a form
arises for whose acceptance it is specially determined through its own disposition.
These dispositions differ, and their principles are, according to the philosophers, the
aspects of the stars and the different relative positions of the heavenly bodies in their
movements. And through this the possibility is open that there may be in the principles
of these dispositions wonderful and marvellous things, so that those who understand
talisman through their knowledge of the particular qualities of minerals and of the
stars succeed in combining the heavenly potencies with those mineral peculiarities,
and make shapes of these earthly substances, and seek a special virtue for them and
produce marvellous things in the world through them. And often they drive serpents
and scorpions from a country, and sometimes bugs, and they do other things which are
known to belong to the science of talismans.

And since there is no fixed criterion for the principles of these dispositions, and we
cannot ascertain their essence or limit them, how can we know that it is impossible that
in certain bodies dispositions occur to change their phases at a quicker rhythm, so that
such a body would be disposed to accept a form for the acceptance of which it was not
prepared before, which is claimed to be a miracle? There is no denying this, except
through a lack of understanding and an unfamiliarity with higher things and oblivion
of the secrets of God in the created world and in nature. And he who has examined the
many wonders of the sciences does not consider in any way impossible for God’s
power what is told of the wonders of the prophets.

Our opponents may say: ‘We agree with you that everything possible is in the
power of God, and you theologians agree with us that the impossible cannot be done
and that there are things whose impossibility is known and things which are known to
be possible, and that there are also things about which the understanding is undecided
and which it does not hold to be either impossible or possible. Now what according to
you is the limit of the impossible? If the impossible includes nothing but the
simultaneous affirmation and negation of the same thing, then say that of two things
the one is not the other, and that the existence of the one does not demand the
existence of the other. And say then that God can create will without knowledge of the
thing willed, and knowledge without life, and that He can move the hand of a dead
man and make him sit and write volumes with his hand and engage himself in sciences
while he has his eye open and his looks are fixed on his work, although he does not see
and there is no life in him and he has no power, and it is God alone who creates all
these ordered actions with the moving of the dead man’s hand, and the movement
comes from God. But by regarding this as possible the difference between voluntary
action and a reflex action like shivering is destroyed, and a judicious act will no longer
indicate that the agent possesses knowledge or power. It will then be necessary that
God should be able to change genera and transform the substance into an accident and knowledge into power and black into white and a voice into an odour, just as He is able to change the inorganic into an animal and a stone into gold, and it will then follow that God can also bring about other unlimited impossibilities.  

The answer to this is to say that the impossible cannot be done by God, and the impossible consists in the simultaneous affirmation and negation of a thing, or the affirmation of the more particular with the negation of the more general, or the affirmation of two things with the negation of one of them, and what does not refer to this is not impossible and what is not impossible can be done. The identification of black and white is impossible, because by the affirmation of the form of black in the substratum the negation of the form of white and of the existence of white is implied; and since the negation of white is implied by the affirmation of black, the simultaneous affirmation and negation of white is impossible. And the existence of a person in two places at once is only impossible because we imply by his being in the house that he cannot be in another place, and it cannot be understood from the denial that he is in another place that he can be simultaneously both in another place and in the house. And in the same way by will is implied the seeking of something that can be known, and if we assume a seeking without knowledge there cannot be a will and we would then deny what we had implied. And it is impossible that in the inorganic knowledge should be created, because we understand by inorganic that which does not perceive, and if in the organic perception was created it would become impossible to call it inorganic in the sense in which this word is understood.

As to the transformation of one genus into another, some theologians affirm that it is in the power of Gods but we say that for one thing to become another is irrational; for, if for instance, the black could be transformed into power, the black would either remain or not, and if it does not exist any more, it is not changed but simply does not exist any more and something else exists; and if it remains existent together with power, it is not changed, but something else is brought in relation to it, and if the black remains and power does not exist, then it does not change, but remains as it was before. And when we say that blood changes into sperm, we mean by it that this identical matter is divested of one form and invested with another; and it amounts to this, that one form becomes nonexistent and another form comes into existence while the matter remains, and that two forms succeed one another in it. And when we say that water becomes air through being heated, we mean by it that the matter which had received the form of the water is deprived of this form and takes another, and the matter is common to them but the attribute changes. And it is the same when we say that the stick is changed into a serpent or earth into an animal. But there is no matter common to the accident and the substance, nor to black and to power, nor to the other categories, and it is impossible for this reason that they should be changed into each other.

As to God’s moving the hand of a dead man, and raising this man up in the form of a living one who sits and writes, so that through the movement of his hand a well-ordered script is written, this in itself is not impossible as long as we refer events to the will of a voluntary being, and it is only to be denied because the habitual course of nature is in opposition to it. And your affirmation, philosophers, that, if this is so, the judiciousness of an act no longer indicates that the agent possesses knowledge is false, for the agent in this case is God; He determines the act and He performs it. And as to your assertion that if this is so there is no longer any difference between shivering and voluntary motion, we answer that we know this difference only because we experience in ourselves the difference between these two conditions, and we find thereby that the differentiating factor is power, and know that of the two classes of the possible the one happens at one time, the other at another; that is to say, we produce movement with the power to produce it at one time, and a movement without this power at another. Now, when we observe other movements than ours and see many well-ordered movements, we attain knowledge of the power behind them, and God creates
in us all these different kinds of knowledge through the habitual course of events, 
through which one of the two classes of possibility becomes known, though the 
impossibility of the second class is not proved thereby.

I say:

When Ghazali saw that the theory that things have no particular qualities and forms from which 
particular acts follow, for every thing is very objectionable, and contrary to common sense, he 
conceded this in this last section and replaced it by the denial of two points: first that a thing can have 
these qualities but that they need not act on a thing in the way they usually act on it, e.g. fire can have 
its warmth but need not burn something that is brought near to it, even if it is usually burnt when fire 
is brought near to it; secondly that the particular forms have not a particular matter in every object.

The first point can be accepted by the philosophers, for because of external causes the procession of 
acts from agents may not be necessary, and it is not impossible that for instance fire may sometimes 
be brought near cotton without burning it, when something is placed with the cotton that makes it 
non-inflammable, as Ghazali says in his instance of talc and a living being.

As to the point that matter is one of the conditions for material things, this cannot be denied by the 
theologians, for, as Ghazali says, there is no difference between our simultaneous negation and 
affirmation of a thing and our simultaneous denial of part of it and affirmation of the whole. And 
since things consist of two qualities, a general and a particular-and this is what the philosophers mean 
by the term ‘definition’, a definition being composed according to them of a genus and a specific 
difference-it is indifferent for the denial of an existent which of its two qualities is denied. For 
instance, since man consists of two qualities, one being a general quality, viz. animality, and the 
second a particular, viz. rationality, man remains man just as little when we take away his animality 
as when we take away his rationality, for animality is a condition of rationality and when the 
condition is removed the conditioned is removed equally.

On this question the theologians and the philosophers agree, except that the philosophers believe 
that for particular things the general qualities are just as much a condition as the particular, and this 
the theologians do not believe; for the philosophers, for instance, warmth and moisture are a condition 
of life in the transient, because they are more general than life, just as life is a condition of rationality. 
But the theologians do not believe this, and so you hear them say: ‘For us dryness and moisture are 
not a condition of life. ‘ For the philosophers shape, too, is one of the particular conditions of life in 
an organic being; if not, one of two following cases might arise: either the special shape of the animal 
might exist without exercising any function, or this special shape might not exist at all. ‘ For instance, 
for the philosophers the hand is the organ of the intellect, and by means of it man performs his 
rational acts, like writing and the carrying on of the other arts; now if intelligence were possible in the 
inorganic, it would be possible that intellect might exist without performing its function, and it would 
be as if warmth could exist without warming the things that are normally warmed by it. b Also, 
according to the philosophers, every existent has a definite quantity and a definite quality, and also 
the time when it comes into existence and during which it persists are determined, although in all 
these determinations there is, according to the philosophers, a certain latitude. ‘

Theologians and philosophers agree that the matter of existents which participate in one and the same 
matter sometimes accepts one of two forms and sometimes its opposite, as happens, according to 
to them, with the forms of the four elements, fire, air, water, and earth. Only in regard to the things 
which have no common matter or which have different matters do they disagree whether some of 
them can accept the forms of others—for instance, whether something which is not known by 
experience to accept a certain form except through many intermediaries can also accept this ultimate 
form without intermediaries. For instance, the plant comes into existence through composition out of 
the elements; it becomes blood and sperm through being eaten by an animal and from sperm and 
blood comes the animal, as is said in the Divine Words: ‘We created man from an extract of clay, 
than We made him a clot in a sure depository’’ and so on till His words ‘and blessed be God, the best 
of creators’. The theologians affirm that the soul of man can inhere in earth without the intermediaries 
known by experience, whereas the philosophers deny this and say that, if this were possible, wisdom 
would consist in the creation of man without such intermediaries, and a creator who created in such a 
way would be the best and most powerful of creators; both parties claim that what they say is 
selievident, and neither has any proof for its theory. And you, reader, consult your heart; it is your 
duty to believe what it announces, and this is what God-who may make us and you into men of truth
and evidence-has ordained for you.

But some of the Muslims have even affirmed that there can be attributed to God the power to combine the two opposites, and their dubious proof is that the judgement of our intellect that this is impossible is something which has been impressed on the intellect, whereas if there had been impressed on it the judgement that this is possible, it would not deny this possibility, but admit it. For such people it follows as a consequence that neither intellect nor existents have a well-defined nature, and that the truth which exists in the intellect does not correspond to the existence of existing things. The theologians themselves are ashamed of such a theory, but if they held it, it would be more consistent with their point of view than the contradictions in which their opponents involve them on this point. For their opponents try to find out where the difference lies between what as a matter of fact the theologians affirm on this point and what they deny, and it is very difficult for them to make this out—indeed they do not find anything but vague words. We find, therefore, that those most expert in the art of theological discussion take refuge in denying the necessary connexion between condition and conditioned, between a thing and its definition, between a thing and its cause and between a thing and its sign. All this is full of sophistry and is without sense, and the theologian who did this was Abü-l-Ma‘ali. ‘The general argument which solves these difficulties is that existents are divided into opposites and correlates, and if the latter could be separated, the former might be united, but opposites are not united and correlates therefore cannot be separated. And this is the wisdom of God and God’s course in created things, and you will never find in God’s course any alteration. ‘And it is through the perception of this wisdom that the intellect of man becomes intellect, and the existence of such wisdom in the eternal intellect is the cause of its existence in reality. The intellect therefore is not a possible entity which might have been created with other qualities, as Ibn Hazm imagined.

THE SECOND DISCUSSION

THEIR IMPOTENCE TO SHOW BY DEMONSTRATIVE PROOF THAT THE HUMAN SOUL IS A SPIRITUAL SUBSTANCE WHICH EXISTS BY ITSELF AND DOES NOT FILL SPACE, IS NEITHER BODY NOR IMPRESSED ON A BODY, IS NEITHER CONTINUOUS WITH THE BODY NOR SEPARATED FROM THE BODY, JUST AS NEITHER GOD NOR THE ANGELS ACCORDING TO THEM IS OUTSIDE OR INSIDE THE WORLD

Ghazali says:

The discussion of this question demands the exposition of their theory about the animal and human faculties. The animal faculties are divided according to them into motive and apprehensive, and the apprehensive are of two classes, the external and the internal. The external are the five senses, and these faculties are entities impressed on the bodies. The internal are three in number. The first is the representative faculty in the foremost part of the brain behind the faculty of sight; in it the forms of the things seen remain after the closing of the eye, and in this faculty there is impressed and collected what the five senses bring to it, and it is therefore called the common sense. If it did not exist, a man who saw white honey and perceives its sweetness by taste could not, when he saw it a second time, apprehend its sweetness as long as he had not tasted it as he did the first time, but in the common sense there is something which judges that this white is the sweetness, and there is in it, no doubt, a judging element for which both these things, colour and sweetness, are brought together and which determines then that when the one is present the other must be there too. ‘The second is the estimative faculty which is that which apprehends the intentions’ whereas the first apprehends the forms; and the meaning of ‘forms’ is ‘that which cannot be without matter, i. e. body’, whereas the meaning of ‘intentions’ is ‘that which does not require a body for its existence, although it can happen that it occurs in a body’—like enmity and concord. The sheep perceives the colour, shape, and appearance of the wolf, which are only found in body, but it perceives also that the wolf is its enemy, and the lamb perceives the shape and colour of its mother and then
perceives its love and tenderness, and for this reason it flees from the wolf while it walks behind the mother. Discord and concord need not be in bodies like colour and shape, but it sometimes happens that they occur in bodies. This faculty differs from the first, and is located in the posterior ventricle of the brains.

The third faculty is called in animals the imaginative and in man the cogitative, and its nature is to combine the sensible forms and to compose the intentions with the farms: it is located in the middle ventricle between the place where the forms are kept and that where the intentions are retained. Because of this man can imagine a horse that flies and a being with the head of a man and the body of a horse, and other combinations, although he has never seen such things. It is more appropriate, as will be shown, to join this faculty with the motive faculties than with the apprehensive. The places where these faculties are located are known only through medicine, for if a lesion occurs to one of these ventricles the faculties become defective.

Further, the philosophers affirm that the faculty on which the forms of sensible things are impressed through the five senses retains these forms so that they do not disappear after their reception, for one thing does not retain another through the faculty by which it receives it, for water receives without retaining, while wax receives through its wetness and retains through its dryness, by contrast with water. Through this consideration that which retains is different from that which receives, and this is called the retentive faculty. And in the same way intentions are impressed on the estimative faculty, and a faculty retains them, which is called the memorative.

Through this consideration, these internal perceptions, when the imaginative faculty is joined to them, become five in number, like the external faculties.

The motive faculties form two classes, in so far as they are only stimulating motion or executing motion and acting; the stimulating motive faculty is the impulsive and appetitive faculty; this is the faculty which stimulates the acting motive power to move when, in the representative faculty which we have mentioned, there is inscribed the form of something to be sought or avoided. The stimulating faculty has two branches, one called concupiscent which excites to a movement, through which there is an approach to the things represented as necessary or useful in a search for pleasure, and the irascible which excites to a movement through which the thing represented as injurious or mischievous is removed as one seeks to master it. Through this faculty the complete determination to act is effected, which is called will.

The motive faculty which itself executes movement is a faculty which is diffused in the nerves and muscles and has the function of contracting the muscles and drawing the tendons and ligaments which are in contact with the limbs in the direction where this faculty resides, or of relaxing and extending them so that the ligaments and tendons move in the opposite direction. These are the animal faculties of the soul as described in a summary way, without the details.

And as regards the soul which thinks things and is called the rational or discursive soul by the philosophers (and by ‘discursive’ is meant ‘rational’, because discourse is the most typical external operation of reason and therefore the intellectual soul takes its name from it), it has two faculties, a knowing and an acting, and both are called intellect, though equivocally. And the acting faculty is one which is a principle moving man’s body towards the well-ordered human arts, whose order derives from the deliberation proper to man. The knowing faculty, which is called the speculative, is one which has the function of perceiving the real natures of the intelligibles in abstraction from matter, place, and position; and these are the universal concepts which the theologians call sometimes conditions and sometimes modes, and which the philosophers call abstract universals.

The soul has therefore two faculties on two sides: the speculative faculty on the side of the angels, since through it it receives from the angels knowledge of realities (and this faculty must always be receptive for the things coming from above); and the practical faculty on the inferior side, which is the side of the body which it directs and whose morals it improves. This faculty must rule over all the other bodily faculties,
and all the others must be trained by it and subjected to it. It must not itself be affected or influenced by them, but they must be influenced by it, in such a way that there will not through the bodily attributes occur in the soul subservient dispositions, called vices, but that this faculty may remain predominant and arouse in the soul dispositions called virtues.

This is a summary of the human vital faculties, which they distinguished and about which they spoke at great length, and we have omitted the vegetative faculties, since there is no need to mention them as they are not connected with our subject. Nothing of what we have mentioned need be denied on religious grounds, for all these things are observable facts whose habitual course has been provided by God. We only want now to refute their claim that the soul being an essence subsistent by itself, can be known by demonstrative rational proofs, and we do not seek to refute those who say that it is impossible that this knowledge should derive from God’s power or who believe that the religious law is opposed to this; for perhaps it will be clear at the dividing on the Day of Judgement that the Holy Law regards it as true. However, we reject their claim that this can be known by mere reason and that the religious law is not necessary for its knowledge, and we shall ask them to produce their proofs and indeed they have many.

I say:

All this is nothing but an account of the theory of the philosophers about these faculties and his conception of them; only he followed Avicenna, who distinguished himself from the rest of the philosophers by assuming in the animal another faculty than the imaginative; which he calls the estimative faculty and which replaces the cogitative faculty in man, and he says that the ancients applied the term ‘imaginative faculty’ to the estimative, and when they do this then the imaginative faculty in the animal is a substitute for the cogitative faculty in man and will be located in the middle ventricle of the brain. And when the term ‘imaginative’ is applied to the faculty which apprehends shape, this is said to reside in the foremost part of the brain. There is no contradiction in the fact that the retentive and memorative faculties should both be in the posterior part of the brain, for retaining and memory are two in function, but one in their substratum. And what appears from the theory of the ancients is that the imaginative faculty in the animal is that which determines that the wolf should be an enemy of the sheep and that the sheep should be a friend of the lamb, for the imaginative faculty is a perceptive ones and it necessarily possesses judgement, and there is no need to introduce another faculty. What Avicenna says would only be possible if the imaginative faculty were not perceptive; and there is no sense in adding another faculty to the imaginative in the animal, especially in an animal which possesses many arts by nature, for its representations are not derived from the senses and seem to be perceptions intermediary between the intellectual and the sensible forms, and the question of these forms is concisely treated in De sensu et sensato, and we shall leave this subject here and return to Ghazali’s objections against the philosophers.

Ghazali says:

The first proof is that they say that intellectual cognitions inhere in human souls, and are limited and have units which cannot be divided, and therefore their substratum must also be indivisible and every body is divisible, and this proves that the substratum of the cognitions is something incorporeal. ‘ One can put this into a logical form according to the figures of logic, but the easiest way is to say that if the substratum of knowledge is a divisible body, then the knowledge which inheres in it must be divisible too; but the inherent knowledge is not divisible, and therefore the substratum is not a body: and this is a mixed hypothetical syllogism in which the consequent is denied, from which there follows the denial of the antecedent in all cases; and there is no doubt about the validity of this figure of the syllogism, nor again about its premises, for the major is that everything inherent in something divisible is necessarily divisible, the divisibility of its substratum being assumed, and this is a major about which one cannot have any doubt. The minor is that knowledge as a unity inheres in man and is not divided, for its infinite division is impossible, and if it is limited, then it comprises no doubt units which cannot be divided; and in short, when we know a thing, we cannot assume that a part can cease and a part remain, because it
has no parts.

The objection rests on two points. It may be said:

‘How will you refute those who say that the substratum of knowledge is an atom in space which cannot be divided, as is known from the theory of the theologians? ’ And then there remains nothing to be said against it but to question its possibility, and to ask how all that is known can exist in one atom, whereas all the atoms which surround this one are deprived of it although they are near to it. But to question its possibility has no value, as one can also turn it against the doctrine of the philosophers, by asking how the soul can be one single thing which is not in space or outside the body, either continuous with it or separated from it. However, we should not stress this first point, for the discussion of the problem of the atom is lengthy, ‘ and the philosophers have geometrical proofs against it whose discussion is intricate, and one of their many arguments is to ask: ‘Does one of the sides of an atom between two atoms touch the identical spot the other side touches or not? ‘ The former is impossible, because its consequence would be that the two sides coincided, whereas a thing that is in contact with another is in contact, and the latter implies the affirmation of a plurality and divisibility, and the solution of this difficulty is long and we need not go deeper into it and will now turn to the other point.

Your affirmation that everything which inheres in a body must be divisible is contradicted by what you say of the estimative faculty of the sheep where the hostility of the wolf is concerned, for in the judgement of one single thing no division can be imagined, since hostility has no part, so that one part of it might be perceived and another neglected. Still, according to you this perception takes place in a bodily faculty, and the souls of animals are impressed on their bodies and do not survive death, and all the philosophers agree about this. And if it is possible for you to regard as divisible that which is perceived by the five senses, by the common sense and by the faculty which retains the forms, this is not possible for you in the case of those intentions which are not supposed to be in matter.

And if it be said: ‘Absolute hostility, abstracted from matter, is not perceived by the sheep, but only the hostility of the definite individual wolf connected with its bodily individuality and shape, and only the rational faculty perceives universal realities abstracted from matter’-we answer that the sheep perceives, indeed, the colour and shape of the wolf and then its hostility, and if the colour is impressed on the faculty of sight and the same happens to the shape, and it is divided through the division of the substratum of sight, I ask, ‘through what does the sheep perceive the hostility? If through a body, hostility is divided, and I should like to know what this perception is when it is divided, whether it is a perception of a part of the hostility-and how can it have a part? -or whether every part is a perception of the hostility and the hostility is known many times as its perception is fixed in every part of the substratum. ‘ And thus this problem is a difficulty for their proof and must be solved.

And if it is said: ‘This is an argument against the intelligibles, but the intelligibles cannot be denied, ‘ and as long as you cannot call in question the premisses that knowledge cannot be divided and that what cannot be divided cannot be in a divisible body, you can have no doubt about the consequence’--the answer is: ‘We have only written this book to show the incoherence and contradictions in the doctrine of the philosophers, and such a contradiction arises over this question, since through it either your theory about the rational soul is refuted or your theory about the estimative faculty. ‘

Further we say that this contradiction shows that they are not conscious of the point, which confounds their syllogism, and it may well be that the origin of their confusion lies in their statement that knowledge is impressed on a body in the way colour is impressed on a coloured thing, the colour being divided with the division of the coloured thing, so that knowledge must be divided by the division of its substratum. The mistake lies in the term ‘impression’, since it may well be that the relation of knowledge to its substratum is not like that of colour to the coloured object.
so that it could be regarded as being spread over it, diffused over its sides and
divisible with it; knowledge might well be related to its substratum in another way
which would not allow its divisibility although its substratum was divisible; yes, its
relation to it might be like that of perception of the hostility to the body, ; and the
relations of the attributes to their substrata do not all follow the same pattern and they
are not all known to us with all their details so that we could rely on our knowledge,
and to judge such a question without a perfect comprehension of all the details of the
relation is an unreliable judgement. In short, we do not deny that what the philosophers
say gives reasonable and predominant reasons for belief, but we deny that it is known
by an evidence which excludes error and doubt. And it is in this way that a doubt about
it may be raised.

I say:

When the premisses which the philosophers use are taken in an indefinite way the consequence
Ghazali draws is valid. For our assertion that every attribute inhering in a body which is divisible is
divisible through the divisibility of the body can be understood in two ways. First it may be meant
that the definition of every part of this attribute which inheres in the particular body is identical with
the definition of the whole: for instance the white inhering in the white body, for every part of
whiteness which inheres in the individual body has one and the same definition as the whole of
whiteness in this body. ‘ Secondly, it may be meant that the attribute is attached to the body without a
specific shape, ‘ and this attribute again is divided through the division of the body not in such a way
that the intension of the definition of the whole is identical with the intension of the definition of
every part-for instance, the faculty of sight which exists in one who sees-but in such a way that it is
subject to a difference in intensity according to the greater and lesser receptivity of the substratum,
and therefore the power of sight is stronger in the healthy and the young than in the sick and the old.
What is common to those two classes is that they are composed of individuals, i. e. that they are
divided by quantity and not by quiddity, i. e. that either the uniqueness of the definition and the
quiddity remains or that they are annulled. < Those which can be divided quantitatively into any
particular part are one by definition and quiddity and those which cannot be divided into any
individual part whatever only differ from the first class in a degree of intensity, for the action of the
part which has vanished is not identical with that of the part which remains, since the action of the
part which has vanished in weak sight does not act in the same way as the weak sight. b Those two
classes have it in common that colour also cannot be divided by the division of its substratum into any
particular part whatever and keep its definition absolutely intact, but the division terminates in a
particular part in which the colour, when it is distributed to it, disappears. ? The only thing which
keeps its distribution always intact is the nature of the continuous in so far as it is continuous, i. e. the
form of continuity.

When this premiss is assumed in this way, namely by holding that everything which is divisible in
either of these two classes has a body as its substratum, it is self-evident, and the converse, that
everything which is in a body is divisible according to one of these two classes, is evident too; and
when this is verified, then the converse of its opposite is true also, namely that what is not divisible
according to one of these two classes cannot be in a body. If to these premisses there is added further
what is evident in the case of the universal intelligibles, namely that they are not divisible in either of
the two ways, since they are not individual forms, it is clear that there follows from this that neither is
the substratum of these intelligibles a body, nor is the faculty which has the power to produce them a
faculty in a body; and it follows that their substratum is a spiritual faculty which perceives itself and
other things.

But Ghazali took first the one of these two classes and denied that the universal intelligibles belong
to it, and then made his objection by means of the second class, which exists in the faculty of sight
and in the imaginative faculty, and in doing this he committed a sophism; but the science of the soul
is too profound and too elevated to be apprehended by dialectics. ' Besides, Ghazali has not adduced the argument in the manner in which Avicenna brought it out, for
Avicenna built his argument only on the following: If the intelligibles inhered in a body, they would
have to be either in an indivisible part of it, or in a divisible part. Then he refuted the possibility of
their being in an indivisible part of the body, and after this refutation he denied that, if the intellect
inherited in a body, it could inhere in an indivisible part of it. Then he denied that it could inhere in a
divisible part of it and so he denied that it could inhere in body at all.

And when Ghazali denied one of these two divisions he said it was not impossible that there might be another form of relation between the intellect and the body than this, but it is quite clear that if the intellect is related to the body there can exist only two kinds of relation, either to a divisible or to an indivisible substratum.

This proof can be completed; by saying that the intellect is not attached to any animal faculty in the way the form is attached to its substratum, for the denial of its being attached to the body implies necessarily the denial of its being attached to any animal faculty which is attached to the body. For, if the intellect were attached to any of the animal faculties, it would as Aristotle says be unable to act except through this faculty, but then this faculty would not perceive the intellect. This is the argument on which Aristotle himself bases his proof that the intellect is separate.

We shall now mention the second objection which Ghazali raises against the second proof of the philosophers, but we must first observe that their proofs, when they are taken out of their context in those sciences to which they belong, can have at the most the value of dialectical arguments. The only aim of this book of ours is therefore to ascertain the value of the arguments in it which are ascribed to the two parties, and to show to which of the two disputants the terms ‘incoherence’ and ‘contradiction’ would be applied with greater justification.

Ghazali says:

The second proof is that the philosophers say:

‘If the knowledge of one single intellectual notion, i.e. a notion abstracted from matter, were impressed on matter as accidents are impressed on bodily substances, their division would necessarily follow the division of the body, as has been shown before. And if it is not impressed on matter nor spread out over it, and the term “impression” is rejected, let us then use another term and say, “Is there a relation between knowledge and the knower?”

It is absurd to deny the relation, for if there did not exist a relation, why would it be better to know something than not to know it? And if there is a relation, this relation can take place in three ways; either there will be a relation to every part of the substratum, or to some parts to the exclusion of others, or to no part whatever. It is false to say that the notion has no relation to any individual part of the substratum; for if there is no relation to the units, there can be no relation to the aggregate, since a collection of disconnected units is not an aggregate, but itself disconnected. It is false to say that there might be a relation to some part, for the part that was not related would have nothing to do with this notion and therefore would not come into the present discussion. And it is false to say that every part of the substratum might be related to it, for if it were related in all its parts to this notion in its totality, then each single part of the substratum would possess not a part of the notion but the notion in its totality, and this notion would therefore be repeated infinitely in act; on the other hand, if every part were related to this notion in a special way, different from the relation of another part, then this notion would be divided in its content; and we have shown that the content of a notion, one and the same in every respect, is indivisible; if the relation, however, of each part were related to another part of the notion, then this notion would clearly be divided, and this is impossible. And from this it is clear that the things perceived which are in the five senses are only images of the particular divided forms, and that the meaning of perception is the arrival of the image of the thing perceived in the soul of the perceiver, so that every part of the image of the thing perceived is related to a part of the bodily organ.

And the objection against this is what has been said before. For by replacing the term ‘impression’ by ‘relation’ the difficulty is not removed which arises over the question what of the hostility of the wolf is impressed on the estimative faculty of the sheep, as we have mentioned; for the perception is no doubt related to it, and with this relation there must occur what you have said, and hostility is not a measurable thing possessing a measurable quantity, so that its image could be impressed on a measurable body and its parts related to the parts of that body, and the fact that the shape of the wolf is measurable does not remove the difficulty, for the sheep perceives
something else as well as the shape, namely the adversity, opposition, and hostility, and this hostility, added to the shape through the hostility, has no magnitude, and still the sheep perceives it through a body having magnitude; and that is necessarily a difficulty in this proof as well as in the first.

And if someone says: ‘Do you not refute these proofs by asserting that knowledge inheres in a spatial indivisible body, namely the atom?’ we answer: ‘No, for the discussion of the atom is connected with geometrical questions the solution and discussion of which is long and arduous. Further, such a theory would not remove the difficulty, for the power and the will ought then also to be in this atom. For man acts, and this acting cannot be imagined without power and will, which would also be in this atom; and the power to write resides in the hand and the fingers, but knowledge of it does not reside in the hand, for it does not cease when the hand is cut off; nor is the will in the hand, for often a man wants to write, when his hand has withered and he is not able to do so, not because his will has gone, but because his power has. “

I say:

This discussion is not an independent one, but only a complement to the first, for in the first discussion it was merely assumed that knowledge is not divided by the division of its substratum, and here an attempt is made to prove this by making use of a division into three categories. And he repeats the same objection, which presented itself to him because he did not carry out the division of matter in the two senses in which it can be taken. For when the philosophers denied that the intellect could be divided through the division of its substratum in the way in which accidents are divided through the division of their substratum, and there exists another way of division in body which must be applied to the bodily functions of perception, they had a doubt about these faculties. The proof is only completed by denying that the intellect can be divided in either of these ways, and by showing that everything which exists in a body is necessarily divisible in one of them.

For of those things in the body which are divided in this second way, i.e. which are not by definition divisible through the division of their substratum” it was sometimes doubted whether they are separable from their substratum or not. For we see it happen that most parts of the substratum decay and still this kind of existence, i.e. the individual perception, does not decay; and it was thought that it might happen that, just as the form does not disappear through the disappearance of one or more parts of its substratum, in the same way the form might not disappear when the whole was destroyed, and that the decay of the act of the form through its substratum was similar to the decay of the act of the artisan through the deterioration of his tools. And therefore Aristotle says that if an old man had the eye of a young man, he would see as well as the young one, meaning that it is thought that the decrepitude which occurs to the sight of the old man does not happen because of the decay of the faculty but because of the decay of the organs. And he tries to prove this by the inactivity of the organ or the greater part of it in sleep, fainting, drunkenness, and the illnesses through which the perceptions of the senses decay, whereas it is quite certain that the faculties are not destroyed in these conditions. And this is still more evident in those animals which live when they are cut in two; and most plants have this peculiarity, although they do not possess the faculty of perceptions.

But the discussion of the soul is very obscure, and therefore God has only given knowledge of it to those who are deeply learned; and therefore God, answering the question of the masses about this problem, says that this kind of question is not their concern, saying: ‘They will ask thee of the spirit. Say: “The spirit comes at the bidding of my Lord, and ye are given but a little knowledge thereof. “ And the comparison of death with sleep in this question is an evident proof that the soul survives, since the activity of the soul ceases in sleep through the inactivity of its organ, but the existence of the soul does not cease, and therefore it is necessary that its condition in death should be like its condition in sleep, for the parts follow the same rule? And this is a proof which all can understand and which is suitable to be believed by the masses, and will show the learned the way in which the survival of the soul is ascertained. And this is evident from the Divine Words: ‘God takes to Himself souls at the time of their death; and those who do not die in their sleep.

Ghazali says:

The third proof is that they say that, if knowledge resided in a part of the body, the knower would be this part to the exclusion of all the other parts of man, but it is said of man that it is he who knows, and knowledge is an attribute of man in his totality.
without reference to any specified place. ' But this is nonsense, for he is spoken of as seeing and hearing and tasting, and the animals also are described in this way; but this does not mean that the perception of the senses is not in the body, it is only a metaphorical expression like the expression that someone is in Baghdad although he is in a part of the whole of Baghdad, not in the whole of Baghdad, the reference however being made to the whole.

I say:

When it is conceded that the intellect is not related to one of man’s organs-and this has already been proved, since it is not self-evident -it follows that its substratum is not a body, and that our assertion that man knows is not analogous to our assertion that he sees. For since it is self-evident that he sees through a particular organ, it is clear that when we refer sight to man absolutely, the expression is allowed according to the custom of the Arabs and other people.; And since there is no particular organ for the intellect, it is clear that, when we say of him that he knows, this does not mean that a part of him knows. However, how he knows is not clear by itself, for it does not appear that there is an organ or a special place in an organ which possesses this special faculty, as is the case with the imaginative faculty and the cogitative and memorative faculties, the localization of which in parts of the brain is known.

Ghazali says:

The fourth proof is that, if knowledge inhered for instance in a part of the heart or the brain, then necessarily ignorance, its opposite, might reside in another part of the heart or the brain, and it would then be possible that a man should both know and not know one and the same thing at the same time. And since this is impossible, it is proved that the place of ignorance and the place of knowledge are identical, and that this place is one single place in which it is impossible to bring opposites together. But if this place were divisible, it would not be impossible that ignorance should reside in one part of it and knowledge in another, for a thing’s being in one place is not contradicted by its opposite’s being in another, just as there may be pie baldness in one and the same horse, and black and white in a single eye, but in two spots. This, however, does not follow for the senses, as there is no opposite to their perception; but sometimes they perceive and sometimes not, and there exists between them the sole opposition of being and not-being, and we can surely say that someone perceives through some parts, for instance the eye and the ear, and not through the other parts of his body; and there is no contradiction in this. And you cannot evade this difficulty by saying that knowing is the opposite of not-knowing, and that judgment is something common to the whole body; for it is impossible that the judgment should be in any other place but in the place of its cause, and the knower is the place in which the knowledge resides; and if the term is applied to the whole, this is a metaphor, as when we say that a man is in Baghdad, although he is in a part of it, and when we say that a man sees although we know with certainty that the judgment of his sight’ does not reside in his foot and hand but is peculiar to his eye. The judgments are opposed to each other in the same way as their causes, and the judgments are limited to the place where the causes reside. And one cannot evade the difficulty by saying that the place disposed to receive the knowledge and the ignorance of man is one single place in which they can oppose each other, for according to you theologians every body which possesses life can receive knowledge and ignorance, and no other condition but life is imposed, and all the parts of the body are according to you equivalent so far as the reception of knowledge is concerned.

The objection to this is that it can be turned against you philosophers in the matter of desire, longing, and will; these things exist in animals as well as in men, and are things impressed on the body, but it is impossible that one should flee from the object one longs for and that repugnance and craving in regard to one and the same thing should exist in him together, the desire being in one place and the repugnance in another. Still, that does not prove that they do not inhere in bodies, for these potencies, although they are many and distributed over different organs, have one thing that joins them together, namely the soul, which is common both to animal and to man; and
since this cohesive entity forms a unity, the mutually contradictory relations enter into relation with it in turns. This does not prove that the soul is not impressed upon the body, as is quite clear in the case of animals.

I say:

The only logical consequence of what he says here in the name of the philosophers is that knowledge does not inhere in the body in the way colour and in general all accidents do; it does not, however, follow that it does not inhere in body at all. For the impossibility that the place of knowledge should receive the knowledge and want of knowledge of a thing necessarily demonstrates its identity, since opposites cannot inhere in one and the same place, and this kind of impossibility is common to all attributes, whether perceptive or nonperceptive. But what is peculiar to the receptivity of knowledge is that it can perceive opposites together; and this can only happen through an indivisible apprehension in an indivisible substratum, for he who judges is of necessity one, and therefore it is said that knowledge of opposites is one and the same. ' And this kind of receptivity is of necessity proper to the soul alone. What is indeed proved by the philosophers is that this is the condition of the common sense when it exercises its judgement over the five senses, and this common sense is according to the philosophers something bodily. And therefore there is in this argument no proof that the intellect does not inhere in a body, for we have already said that there are two kinds of inherence, the inherence of non-perceptive attributes and that of perceptive.

And the objection Ghazali makes here is true, namely that the appetitive soul does not tend to opposites at the same time although it resides in the body. I do not know of any philosopher who has used this argument to establish the survival of the soul, unless he paid no attention to the philosophical doctrine that it is the characteristic of every perceptive faculty that in its perception two opposites cannot be joined, just as it is the peculiarity of contraries outside the soul that they cannot be together in one and the same substratum; and this is what the perceptive potencies have in common with the non-perceptive. It is proper to the perceptive faculties to judge coexisting contraries, one of them being known through knowledge of the others and it is proper to non-psychical potencies to be divided through the division of the body so that contraries can be in one body at the same time, though not in the same part. And since the soul is a substratum that cannot be divided in this way, contraries cannot be in it together, i. e. in two parts of the substratum.

Such arguments are all arguments of people who have not grasped the views of the philosophers about this problem. How little does a man understand, who gives it as a proof of the soul’s survival that it does not judge two opposites at the same time, for from this it follows only that the substratum of the soul is one, and not divided in the way the substratum of the accidents is divided; and it does not follow from the proof that the substratum is not divided in the way the substratum of the accidents is divided that the substratum is not divided at all.

Ghazali says:

The fifth proof is: If the intellect perceived the intelligibles through a bodily organ, it would not know its own self. But the consequent is impossible; therefore it knows its own self and the antecedent is impossible. We answer: It is conceded that from the exclusion of the contrary of the consequent the contrary of the antecedent follows, ‘ but only when the consequence of the antecedent has been previously established, and we say we do not concede the necessity of the consequence; and what is your proof?

And if it is said that the proof is that, because sight is in the body, sight does not attach itself to sight, and the seeing is not seen nor the hearing heard, and so on with respect to the other senses; and if the intellect, too, could only perceive through body it could not perceive itself, but the intellect thinks itself just as it thinks other things, and it thinks that it thinks itself and that it thinks other things-we answer: What you assert is wrong on two points. The first is that according to us sight could be attached to itself, just as one and the same knowledge can be knowledge of other things and of itself, only in the usual course of events this does not happen; but according to us the interruption of the usual course of events is possible. The second, and this is the stronger argument, is for us to say that we concede this for the senses; but why, if this is impossible for some senses, is it impossible for others, and why is it impossible that there should be a difference in the behaviour of the senses with respect to perception although they are all in the body? just as sight differs from touch through the fact that
touch, like taste, can only come to perceive by being in contact with the object touched, whereas separation from the object is a condition of sight, so that when the eyelids cover the eye it does not see the colour of the eyelid, not being at a distance from it. But this difference does not necessitate that they should differ in their need to be in a body, and it is not impossible that there should be among the senses something called intellect that differs from the others in that it perceives itself.

I say:

The first objection, that the usual course of events might be interrupted so that sight might see itself, is an argument of the utmost sophistry and imposture, and we have discussed it already. As to the second objection, that it is not impossible that a bodily perception should perceive itself, this has a certain plausibility, but when the motive is known which led the philosophers to their assertion, then the impossibility of this supposition becomes clear, for perception is something which exists between the agent and the patient, and it consists of the perceiver and the perceived. It is impossible that a sense should be in one and the same respect its own agent and patient, and the duality of agent and patient in sense arises, as concerns its act, from the side of the form and, as concerns its passivity, from the side of the matter. But no composite can think itself, because if this were so, its essence would be different from that by which it thinks, for it would think only with a part of its essence; and since intellect and intelligible are identical, if the composite thought its essence, the composite would become a simple, and the whole the part, and all this is impossible. When this is established here in this way, it is only a dialectical proof; but in the proper demonstrative order, i.e. preceded by the conclusions which ought to precede it, it can become a necessary one.

Ghazali says:

The sixth proof is that they say that, if the intellect perceived through a bodily organ like sight, it would be just as incapable of perceiving its own organ as the other senses; but it perceives the brain and the heart and what is claimed to be its organ, so that it is proved that it has no organ or substratum, for otherwise it would not perceive the brain and the heart.

We have the same kind of objection against this as against the preceding proof. We say it is not inconceivable that sight should perceive its subject, for that it does not perceive it is only what happens in the usual course of events. Or shall we rather say it is not impossible that the senses should differ individually in this respect, although it is common to them all to be impressed on bodies, as has been said before? And why do you say that what exists in a body cannot perceive the body, and how do you know its impossibility in all cases, since to make an infinite generalization from a finite number of individual cases has no logical validity? In logic it is stated, as an example of an inference made from one particular cause or many particular causes to all causes, that when we say, after learning it by induction through observing all the animals, ‘all animals move the lower jaw in masticating’, the crocodile has been neglected, since it moves the upper. The philosophers have only made the induction from the five senses, and found this known common feature in them and then judged that all the senses must be like this. But perhaps the intellect is another type of sense which stands in regard to the other senses as the crocodile stands to the other animals, and in this case there would be some senses which could perceive their substratum although they were corporeal and divisible, and other senses which could not do this; just as the senses can be divided into those which perceive the thing perceived without contact, like sight, and those which cannot perceive without contact, like taste and touch. Although, therefore, what the philosophers affirm creates a certain presumption, it does not afford reliable evidence.

But it may be said by the philosophers: We do not merely point to the enumeration of the senses but lay stress on a proof, and say that if the heart or the brain were the soul of man, he could never be unaware of them, and never for a moment not think of them, just as he is never unconscious of himself; for nobody’s self is ever unaware of itself, but it is always affirming itself in its soul, but as long as man has not heard any one speaking about the heart and the brain or has not observed them through the dissection of another man, he does not perceive them and does not believe in their
existence. But if the intellect inhered in the body, it would necessarily either think or not think of this body continually; neither the one nor the other is the case, but it sometimes thinks of its body and sometimes does not. This can be proved by the fact that the perception which inheres in the substratum perceives that substratum either because of a relation between itself and the substratum-and one cannot imagine another relation between them than that of inherence-and then the perception must perceive its substratum continually, or this relation will not suffice; and in this case the perception can never perceive its substratum, since there can never occur another relation between them; just as because of the fact that it thinks itself, it thinks itself always and is not sometimes aware, sometimes unaware of itself.

But we answer: As long as a man is conscious of himself and aware of his soul, he is also aware of his body; indeed, the name, form, and shape of the heart are not well defined for him, but he regards his soul and self as a body to such an extent that he regards even his clothes and his house as belonging to his self, but the soul or the self which the philosophers mention has no relation to the house or the clothes. This primary attribution of the soul to the body is necessary for man, and his unconsciousness of the form and name of his soul is like his unconsciousness of the seat of smell, which is two excrescences in the foremost part of the brain resembling the nipples of the breast; still, everyone knows that he perceives smell with his body, but he does not represent the shape of the seat of this perception, nor does he define this seat, although he perceives that it is nearer to his head than to his heels, and, in relation to the whole of his head, nearer to the inside of his nose than to the inside of his ear. Man knows his soul in the same way, and he knows that the essence through which the soul exists is nearer to his heart and breast than to his foot, and he supposes that his soul will persist when he loses his foot, but he does not regard it as possible that his soul should persist when his heart is taken away. But what the philosophers say about his being sometimes aware of his body, sometimes not, is not true.

I say:
As to his objection against the assertion that a body or a bodily faculty cannot know itself, because the senses are perceptive faculties in bodies and do not know themselves, this assertion indeed is based on induction, and induction does not provide absolute evidence. As to Ghazali’s comparison of this to the induction which establishes that all animals move their lower jaw, this comparison is only valid in part. For the induction that all animals move their lower jaw is an imperfect one, because not all animals have been enumerated; whereas the man who assumes that no sense perceives itself has certainly made a complete induction, for there are no other senses than the five. But the judgement based on the observation of the senses that no perceptive faculty is in a body resembles the induction by which it is judged that all animals move their lower jaw; for, just as in the latter case not all the animals, in the former not all the perceptive faculties are enumerated?

As to his saying in the name of the philosophers that if the intellect were in the body, it would, when it perceives, perceive the body in which it is, this is a silly and inane assertion which is not made by the philosophers. It would only follow if everyone who perceived a thing had to perceive it together with its definition; but that is not so, for we perceive the soul and many other things without perceiving their definition. If, indeed, we perceived the definition of the soul together with its existence, we should of necessity know through its definition that it was in the body or that it was incorporeal; for, if it were in the body, the body would be necessarily included in its definition, and if it were not in the body, the body would not be included in the definition. And this is what one must believe about this problem.

As for Ghazali’s objection, that a man knows of his soul that it is in his body although he cannot specify in which part-this indeed is true, for the ancients had different opinions about its seat, but our knowledge that the soul is in the body does not mean that we know that it receives its existence through being in the body; this is not self-evident, and is a question about which the philosophers ancient as well as modern differ, for if the body serves as an instrument for the soul, the soul does not receive its existence through the body; but if the body is like a substratum for its accident; then the soul can only exist through the body.

Ghazali says:
The seventh proof. The philosophers say that the faculties which perceive through the bodily organs become tired through the long-continued performance of the act of perception, since the continuation of their action destroys the mixture of their elements and tires them, and in the same way excessive stimulation of the perceptive faculties makes them weak and often even corrupts them, so that afterwards they are not able to perceive something lighter and more delicate; so for instance a loud voice and a strong light hinder or corrupt the perception of a low voice and delicate objects of sight afterwards; and in fact the man who tastes something extremely sweet does not afterwards taste something less sweet. But the intellectual faculty behaves in the opposite way; a long observation of intelligibles does not tire it, and the perception of important necessary truths gives it strength for the perception of easy observations and does not weaken it, and if sometimes tiredness may befall it, this happens because it makes use of and gets assistance from the imaginative faculty, so that the organ of the imaginative faculty becomes weary and no longer serves the intellect.

Our objection to this follows the same line as before, and we say that it may well be that the bodily senses differ in this; and what is true for some of them need not be true for others-yes, it may be that the bodies themselves may differ and that some of them may grow weak through a certain type of movement, whereas others may grow strong through a certain type of movement, not weak, and that when this type of movement has made an impression on them, it causes a renewal of strength in them so that they do not perceive any new impression made on them. And all this is possible, since a judgement valid for some is not valid for all.

I say:

This is an old proof of the philosophers, and it amounts to this: that when the intellect perceives a strong intelligible and afterwards turns to the perception of a slighter, it perceives it more easily, and this shows that it does not perceive through the body, since we find that the bodily perceptive faculties are impressed by strong sensations in a way which lessens their power of perception, so that after strong sensations they cannot perceive things of slight intensity. The reason is that through every form which inheres in a body the body receives an impression, because this form is necessarily mixed with it; for otherwise this form would not be a form in a body. Now since the philosophers found that the receptacle of the intelligibles was not impressed by the intelligibles, they decided that this receptacle was not a body.

And against this there is no objection. For every substratum which is impressed congruously or incongruously by the inherence of the form in it, be it little or much, is necessarily corporeal, and the reverse is also true, namely that everything corporeal is impressed by the form which is realized in it, and the magnitude of the impression depends on the magnitude of the mixing of the form and the body. And the cause of this is that every becoming is the consequence of a change, and if a form could inhere in a body without a change it might happen that, there could be a form whose realization did not impress its substratum.

Ghazali says:

The eighth proof is that the philosophers say: ‘All the faculties of parts of the body become weaker, when they have reached the end of their growth at forty years and later; so sight and hearing and the other faculties become weaker, but the intellectual faculty becomes strong in most cases only after this age. ‘ And the loss of insight in the intelligibles, through illness in the body and through dotage in old age, does not argue against this, for as long as it is proved that at certain times the intellect is strong notwithstanding the weakness of the body, it is clear that it exists by itself, and its decline at the time of the declining of the body does not imply that it exists through the body, for from a negative consequent alternating with a positive consequent there is no inference. For we say that, if the intellectual faculty exists through the body, then the weakness of the body will weaken it at all times, but the consequent is false and therefore the antecedent is false; but, when we say the consequent is true, sometimes it does not follow that the antecedent is true. Further, the cause of this is that the soul has an activity through itself, when nothing hinders it and it is not preoccupied with something. For the soul has two kinds of action, one in relation to the body, namely to
govern and rule it, and one in relation to its principles and essence, and this is to perceive the intelligibles, and these two kinds of action hinder each other and are opposed to each other, and when it is occupied with the one action, it turns away from the other and it cannot combine both. And its occupations through the body are sense-perception and imagination and the passions, anger, fear, grief, and pain, but when it sets out to think the intelligible it neglects all these other things. Yes, sense-perception by itself sometimes hinders the apprehension and contemplation of the intellect without the occurrence of any damage to the organ of the intellect or to the intellect itself, and the reason for this is that the soul is prevented from one action through being occupied with another, and therefore during pain, disease, and fear-for this also is a disease of the brain-intellectual speculation leaves off. And why should it be impossible that through this difference in these two kinds of action in the soul they should hinder each other, since even two acts of the same kind may impede each other, for fear is stunned by pain and desire by anger and the observation of one intelligible by that of another? And a sign that the illness which enters the body does not occur in the substratum of the sciences is that, when the sick man recovers, he does not need to learn the sciences anew, but the disposition of his soul becomes the same as it was before, and those sciences come back to him exactly as they were without any new learning.

The objection is that we say that there may be innumerable causes for the increase and the decrease of the faculties, for some of the faculties increase in power at the beginning of life, some in middle life, some at the end, and the same is the case with the intellect and only a topical proof can be claimed. And it is not impossible that smell and sight should differ in this, that smell becomes stronger after forty years and sight weaker, although they both inhere in the body, just as those faculties differ in animals; for in some animals smell is stronger, in others hearing and sight because of the difference in their temperaments, and it is not possible to ascertain these facts absolutely. Nor is it impossible that the temperament of the organs also should differ with individual persons and conditions. One of the reasons why the decay of sight is earlier than the decay of the intellect is that sight is earlier, for a man sees when he is first created, Whereas his intellect is not mature before fifteen years or more, according to the different opinions we find people to have about this problem; and it is even said that greyness comes earlier to the hair on the head than to that on the beard, because the hair on the head grows earlier. If one goes deeper into these causes and does not simply refer them to the usual course of nature, one cannot base any sure knowledge thereon, because the possibilities for certain faculties to become stronger and others weaker are unlimited, and nothing evident results from this.

I say:

When it is assumed that the substratum of the perceptive faculties is the natural heat, and that natural heat suffers diminution after forty years, then intellect must behave in the same way in this respect; that is, if its substratum is natural heat, then it is necessary that the intellect should become old as the natural heat becomes old. If, however, it is thought that the substrata for the intellect and the senses are different, then it is not necessary that both should be similar in their lifetimes.

Ghazali says:

The ninth proof is that the philosophers say: How can man be attributed to body with its accidents, for those bodies are continually in dissolution, and nutrition replaces what is dissolved, so that when we see a child after its separation from its mother’s womb fall ill a few times and become thin and then fat again and grow up, we may safely say that after forty years no particle remains of what was there when his mother was delivered of it. Indeed, the child began its existence out of the parts of the sperm alone, but nothing of the particles of the sperm remains in it; no, all this is dissolved and has changed into something else, and then this body has become another. Still we say that the identical man remains and his notions remain with him from the beginning of his youth, although all the bodily parts have changed. And this shows that the soul has an existence outside the body and that the body is its organ!
The objection is that this is contradicted by what happens to animals and plants, for when the condition of their being small is compared to the condition of their being big, their identity is asserted equally with the identity of man; still, it does not prove that they have an incorporeal existence. ‘And what is said about knowledge is refuted by the retention of imaginative forms, for they remain in the boy from youth to old age, although the particles of his brain change.

I say

None of the ancient philosophers used this proof for the survival of the soul; they only used it to show that in individuals there is an essence which remains from birth to death and that things are not in an eternal flux, as was believed by many ancients who denied necessary knowledge, so that Plato was forced to introduce the forms. There is no sense in occupying ourselves with this, and the objection of Ghazali against this proof is valid.

Ghazali says:

The tenth proof is that they say that the intellectual faculty perceives the general intellectual universals which the theologians call modes, so that man in general is apprehended (whereas the senses perceive the individuality of a definite man), and this universal differs from the man who is perceived by the senses, for what is perceived by the senses is in a particular place, and his colour, size, and position are particular, but the intelligible absolute man is abstracted from all these things; however, in him there is everything to which the term ‘man’ is applied, although he has not the colour, size, position, or place, of the man perceived by the senses, and even a man who may exist in the future is subsumed under him; indeed, if man disappeared there would remain this reality of man in the intellect, in abstraction from all these particular things.

And in this way, from everything perceived by the senses as an individual, there results for the intellect a reality, universal and abstracted from matters and from positions, so that its attributes can be divided into, what is essential (as, for example, corporeity for plants and animals, and animality for man) and into what is accidental (like whiteness and length for man), and this reality is judged as being essential or accidental for the genus of man and plant and of everything not apprehended as an individual perceived by the senses, and so it is shown that the universal, in abstraction from sensible attachments, is intelligible and invariable in the mind of man.

This intelligible universal cannot be pointed at, nor has it a position or size, and in its abstraction from position and matter it is either related to its object (which is impossible, for its object has position and place and size) or to its subject (which is the rational soul), and therefore the soul cannot have a position or be pointed at or have a size, for if it had all these things what inheres in it would also possess them. z

And the objection is that the idea of a universal which you philosophers assume as existing in the intellect is not accepted by us. ; According to us nothing inheres in the intellect but what inheres in the senses, only it inheres in the senses as an aggregate which they cannot separate, whereas the intellect is able to do so. Further, when it is separated, the single part separated from its attachments is just as much an individual in the intellect as the aggregate with its attachments, only this invariable part’ in the mind is related to the thing thought of and to similar things by one single relation, and in this way it is said to be a universal. For there is in the intellect the forma of the individual thing thought of which is first perceived by the senses, and the relation of this form to all the individuals of this genus which the senses perceive is one and the same. If, after seeing one man, someone sees another, no new form occurs to him, as happens when he sees a horse after seeing a man, for then two different forms occur in him. A similar thing happens to the senses themselves, for when a man sees water, one form occurs in his imagination, and if he sees blood afterwards, another form occurs, but if he sees another water, no other form occurs, but the form of the water which is impressed on his imagination is an image for all individual stretches of water, and for this reason it is often thought to be a universal.

And in the same way, when for instance he sees a hand, there occurs in his imagination and in his intellect the natural position of its parts, namely the surface of
the hand and the division of the fingers in it and the ending of the fingers in the nails, and besides this there occur to him the smallness or bigness of the hand and its colour, and if he sees another hand which resembles the first in everything, no other new form occurs to him; no, this second observation, when a new thing occurs, does not produce an impression on his imagination, just as, when he sees the water after having previously seen it in one and the same vessel and in the same quantity, no new impression is produced. And he may see another hand, different in colour and size, and then there occurs to him another colour and another size, but there does not happen to him a new form of hand, for the small black hand has in common with the big white hand the position of its parts, differing from it in colour, and of that in which the second hand agrees with the first no new form is produced, since both forms are identical, but the form of the things in which they differ is renewed. And this is the meaning of the universal both in sensation and in intellect, for when the intellect apprehends the form of the body of an animal, then it does not acquire a new form of corporeity from a plant, just as in imagination the form of two stretches of water perceived at two different times need not be renewed; and the same happens with all things that have something in common.

But this does not permit one to assert the existence of a universal which has no position whatever, although the intellect can judge that there exists something that cannot be pointed at and has no spatial position; for instance, it can assert the existence of the creator of the universe, with the understanding, however, that such a creator cannot be imagined to exist in matter, and in this kind of reality the abstraction from matter is in the intelligible itself and is not caused by the intellect and by thinking. But as to the forms acquired from material things, this happens in the way we have mentioned.

I say:

The meaning of the philosophical theory he relates is that the intellect apprehends, in relation to the individuals which have a common species, a single entity, in which they participate and which is the quiddity of this species without this entity’s being divided into the things in which the individuals qua individuals are divided, like space and position and the matters through which they receive their plurality. This entity must be ingenerable and incorruptible and is not destroyed by the disappearance of one of the individuals in which it exists, and the sciences therefore are eternal and not corruptible except by accident, that is to say by their connexion with Zaid and Amr; that is, only through this connexion are they corruptible, and not in themselves, since if they were transitory in themselves this connexion would exist in their essence and they could not constitute an identity. And the philosophers say that, if this is established for the intellect and the intellect is in the soul, it is necessary that the soul should not be divisible in the way in which individuals are divisible, and that the soul in Amr and in Zaid should be one single entity. And this proof is strong in the case of the intellect, because in the intellect there is no individuality whatever; the soul, however, although it is free from the matters’ through which the individuals receive their plurality, is said by the most famous philosophers not to abandon the nature of the individual, although it is an apprehending entity. This is a point which has to be considered.

As for Ghazali’s objection, it amounts to saying that the intellect is something individual and that universality is an accident of it, and therefore Ghazali compares the way in which the intellect observes a common feature in individuals to the way in which the senses perceive the same thing many times, since for Ghazali the intelligible is a unity, but not something universal, and for him the animality of Zaid is numerically identical with the animality which he observes in Khalid And this is false, and if it were true, there would be no difference between sense-perception and the apprehension of the intellect.

The Third Discussion

And after this Ghazali says that the philosophers have two proofs to demonstrate that the soul after once existing cannot perish. The first is that if the soul perished this could only be imagined in one of these three ways: either (1) it perishes simultaneously with the body, or (2) through an opposite which
is found in it, or (3) through the power of God, the powerful. It is false that it can perish through the corruption of the body, for it is separated from the body. It is false that it can have an opposite, for a separate substance has no opposite. ‘And it is false, as has been shown before, that the power of God can attach itself to non-being.

Now, Ghazali objecting to the philosophers answers: ‘We theologians do not admit that the soul is external to the body; besides, it is the special theory of Avicenna that the souls are numerically differentiated through the differentiation of the bodies, for that there should be one single soul in every respect and in all people brings about many impossibilities, for instance that when Zaid knows some thing Amr should know it too, and when Amr does not know something Zaid should not know it either; and many other impossibilities follow from this assumption. ‘And Ghazali adduces against Avicenna the argument that when it is assumed that the souls are numerically differentiated through the differentiation of the bodies, then they are attached to the bodies and must necessarily perish with their decay.

The philosophers, however, can answer that it is by no means necessary that, when there exists between two things a relation of attachment and love, for instance the relation between the lover and the beloved and the relation between iron and the magnet, the destruction of the one should cause the destruction of the other. But Avicenna’s opponents may ask his partisans through what the individuation and numerical plurality of souls takes place, when they are separated from their matters, for the numerical plurality of individuals arises only through matter. He who claims the survival and the numerical plurality of souls should say that they are in a subtle matter, namely the animal warmth which emanates from the heavenly bodies, and this is a warmth which is not fire and in which there is not a principle of fire; in this warmth there are the souls which create the sublunary bodies and those which inhere in these bodies. And none of the philosophers is opposed to the theory that in the elements there is heavenly warmth and that this is the substratum for the potencies which produce animals and plants, but some of the philosophers call this potency a natural heavenly potency, whereas Galen calls it the forming power and sometimes the demiurge, saying that it seems that there exists a wise maker of the living being who has created it and that this is apparent from anatomy, but where this maker is and what His substance is is too lofty a problem for human understanding. ‘From this Plato proves that the soul is separated from the body, for the soul creates and forms the body, and if the body were the condition for the existence of the soul, the soul would not have created it or formed it. z This creative soul is most apparent in the animals which do not procreate, but it is also evident in the animals which do. And just as we know that the soul is something added to the natural warmth, since it is not of the nature of warmth qua warmth to produce well-ordered intelligible acts, so we know that the warmth which is in the seeds does not suffice to create and to form. And the philosophers do not disagree about the fact that there are in the elements souls creating each species of animals, plants, and minerals that exists, and that each of them needs a directing principle and preserving powers for it to come into existence and remain. And these souls are either like intermediaries between the souls of the heavenly bodies and the souls in the sensible bodies of the sublunary world, and then no doubt they have absolute dominion over these latter souls and these bodies, and from here arises the belief in the Jinn, ‘or these souls themselves are attached to the bodies which they create according to a resemblance which exists between them, and when the bodies decay they return to their spiritual matter and to the subtle imperceptible bodies.

And there are none of the old philosophers who do not acknowledge these souls, and they only disagree as to whether they are identical with the souls in our bodies or of another kind. And as to those who accept a bestower of forms, they regard these powers as a separate intellect; but this theory is not found in any of the old philosophers, but only in some philosophers of Islam, because it belongs to their principles that the separate principles do not change their matters by transformation in respect of substance and primarily, for the cause of change is the opposite of the thing changed. s This question is one of the most difficult in philosophy, and the best explanation that can be given of this problem is that the material intellect thinks an infinite number of things in one single intelligible, and that it judges these things in a universal judgement, and that that which forms its essence is absolutely immaterial. b Therefore Aristotle praises Anaxagoras’ for having made intellect, namely an immaterial form, the prime mover, and for this reason it does not suffer any action from anything, for the cause of passivity is matter and in this respect the passive potencies are in the same position as the active, for it is the passive potencies possessing matters which accept definite things.
The Fourth Discussion

Having finished this question Ghazali begins to say that the philosophers deny bodily resurrection. This is a problem which is not found in any of the older philosophers, although resurrection has been mentioned in different religions for at least a thousand years and the philosophers whose theories have come to us are of a more recent date. The first to mention bodily resurrection were the prophets of Israel after Moses, as is evident from the Psalms and many books attributed to the Israelites. Bodily resurrection is also affirmed in the New Testament and attributed by tradition to Jesus. It is a theory of the Sabaeans, whose religion is according to Ibn Hazm the oldest.

But the philosophers in particular, as is only natural, regard this doctrine as most important and believe in it most, and the reason is that it is conducive to an order amongst men on which man’s being, as man, depends and through which he can attain the greatest happiness proper to him, for it is a necessity for the existence of the moral and speculative virtues and of the practical sciences in men. They hold namely that man cannot live in this world without the practical sciences, nor in this and the next world without the speculative virtues, and that neither of these categories is perfected or completed without the practical virtues, and that the practical virtues can only become strong through the knowledge and adoration of God by the services prescribed by the laws of the different religions, like offerings and prayers and supplications and other such utterances by which praise is rendered to God, the angels, and the prophets.

In short, the philosophers believe that religious laws are necessary political arts, the principles of which are taken from natural reason and inspiration, especially in what is common to all religions, although religions differ here more or less. The philosophers further hold that one must not object either through a positive or through a negative statement to any of the general religious principles, for instance whether it is obligatory to serve God or not, and still more whether God does or does not exist, and they affirm this also concerning the other religious principles, for instance bliss in the beyond and its possibility; for all religions agree in the acceptance of another existence after death, although they differ in the description of this existence, just as they agree about the knowledge, attributes, and acts of God, although they differ more or less in their utterances about the essence and the acts of the Principle. All religions agree also about the acts conducive to bliss in the next world, although they differ about the determination of these acts.

In short, the religions are, according to the philosophers, obligatory, since they lead towards wisdom in a way universal to all human beings, for philosophy only leads a certain number of intelligent people to the knowledge of happiness, and they therefore have to learn wisdom, whereas religions seek the instruction of the masses generally. Notwithstanding this, we do not find any religion which is not attentive to the special needs of the learned, although it is primarily concerned with the things in which the masses participate. And since the existence of the learned class is only perfected and its full happiness attained by participation with the class of the masses, the general doctrine is also obligatory for the existence and life of this special class, both at the time of their youth and growth (and nobody doubts this), and when they pass on to attain the excellence which is their distinguishing characteristic. For it belongs to the necessary excellence of a man of learning that he should not despise the doctrines in which he has been brought up, and that he should explain them in the fairest way, and that he should understand that the aim of these doctrines lies in their universal character, not in their particularity, and that, if he expresses a doubt concerning the religious principles in which he has been brought up, or explains them in a way contradictory to the prophets and turns away from their path, he merits more than anyone else that the term unbeliever should be applied to him, and he is liable to the penalty for unbelief in the religion in which he has been brought up.

Further, he is under obligation to choose the best religion of his period, even when they are all equally true for him, and he must believe that the best will be abrogated by the introduction of a still better. Therefore the learned who were instructing the people in Alexandria became Muslims when Islam reached them, and the learned in the Roman Empire became Christians when the religion of Jesus was introduced there. And nobody doubts that among the Israelites there were many learned men, and this is apparent from the books which are found amongst the Israelites and which are attributed to Solomon. And never has wisdom ceased among the inspired, i. e. the prophets, and
therefore it is the truest of all sayings that every prophet is a sage, ‘but not every sage a prophet; the learned, however, are those of whom it is said that they are the heirs of the prophets.

And since in the principles of the demonstrative sciences there are postulates and axioms which are assumed, this must still more be the case for the religions which take their origin in inspiration and reason. Every religion exists through inspiration and is blended with reason. And he who holds that it is possible that there should exist a natural religion based on reason alone must admit that this religion must be less perfect than those which spring from reason and inspiration. And all philosophers agree that the principles of action must be taken on authority, for there is no demonstration for the necessity of action except through the existence of virtues which are realized through moral actions and through practice.

And it is clear from this that all the learned hold about religions the opinion that the principles of the actions and regulations prescribed in every religion are received from the prophets and lawgivers, who regard those necessary principles as praiseworthy which most incite the masses to the performance of virtuous acts; and so nobody doubts that those who are brought up on those principles are of a more perfect virtue than those who are brought up on others, for instance that the prayers in our religion hold men back from ignominy and wickedness, as God’s word certifies, and that the prayer ordained in our religion fulfils this purpose more truly than the prayers ordained in others, and this by the conditions imposed on it of number, time, recitation, purity, and desistance from acts and words harmful to it. And the same may be said of the doctrine of the beyond in our religion, which is more conducive to virtuous actions than what is said in others. Thus to represent the beyond in material images is more appropriate than purely spiritual representation, as is said in the Divine Words: ‘The likeness of the Paradise which those who fear God are promised, beneath it rivers flow.’; And the Prophet has said: ‘In it there is what no eye has seen, no ear has heard, nor ever entered the mind of man. ‘And Ibn Abbas said: ‘There is no relation in the other world to this world but the names.’ And he meant by this that the beyond is another creation of a higher order than this world, and another phase superior to our earthly. He need not deny this who believes that we see one single thing developing itself from one phase to another, for instance the transformation of the inorganic into beings conscious of their own essences, i.e. the intellectual forms. Those who are in doubt about this and object to it and try to explain it are those who seek to destroy the religious prescriptions and to undo the virtues. They are, as everyone knows, the heretics and those who believe that the end of man consists only in sensual enjoyment. When such people have really the power to destroy religious belief both theologians and philosophers will no doubt kill them, but when they have no actual power the best arguments that can be brought against them are those that are contained in the Holy Book. What Ghazali says against them is right, and in refuting them it must be admitted that the soul is immortal, as is proved by rational and religious proofs, and it must be assumed that what arises from the dead is simulacra’ of these earthly bodies, not these bodies themselves, for that which has perished does not return individually and a thing can only return as an image of that which has perished, not—as a being identical with what has perished, as Ghazali declares. Therefore the doctrine of resurrection of those theologians who believe that the soul is an accident and that the bodies which arise are identical with those that perished cannot be true. For what perished and became anew can only be specifically, not numerically, one, and this argument is especially valid against those theologians who hold that an accident does not last two moments.

Ghazali accused the philosophers of heresy on three points. One concerns this question, and we have already shown what opinion the philosophers hold about this, and that according to them it is a speculative problem. The second point is the theory attributed to the philosophers that God does not know individuals, but here again we have shown that they do not say this. The third point is their theory of the eternity of the world, but again we have shown that what they understand by this term has not the meaning for which they are accused of heresy by the theologians. Ghazali asserts in this book that no Muslim believes in a purely spiritual resurrection, and in another book he says that the Sufis hold it. According to this latter assertion those who believe in a spiritual but not in a perceptible resurrection are not declared heretics by universal consent, and this permits belief in a spiritual resurrection. But again in another book he repeats his accusation of heresy as if it rested on universal consent. And all this, as you see, is confusing. And no doubt this man erred in religious questions as he erred in rational problems. God is the succourer for the finding of what is true, and He invests with the truth whomever He chooses.
I have decided to break off my inquiry about these things here, and I ask pardon for their discussion, and if it were not an obligation to seek the truth for those who are entitled to it-and those are, as Galen says, one in a thousand’-and to prevent from discussion those who have no claim to it, I would not have treated all this. And God knows every single letter, and perhaps God will accept my excuse and forgive my stumbling in His bounty, generosity, munificence and excellence—there is no God but He!

The End

This concludes the complete translation of the book. The translator’s notes which are another volume have not been included here. If you have any suggestions or corrections do let me know.

What I would like to do besides adding the translator’s notes is to link the sections directly to al-Ghazali’s original work. Al-Ghazali’s original work has been translated by M. Marmura who mentioned in his introduction that S. Van Den Bergh has made errors in the translation due to his understanding of al-Ghazali’s work that Ibn Rushd quotes above.

E-mail: mih@hozien.com.