

Lucretius - On The Nature of Things - Bailey

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Editions at EpicureanFriends.com

[The 1743 Translation Published By Daniel Brown](#)

The translator of this edition is unknown, but it was published in England by Daniel Brown in 1743. This translation has the advantage that despite being older, it can sometimes be easier to read than later versions.

[The 1893 Translation of HAJ Munro](#)

This is one of the most memorable and literal translations available.

The 1920's Loeb translation by William Rouse

[The 1936 Translation Of Cyril Bailey](#)

This is the most recent edition in the public domain.

[The Latin Edition](#)

This text comes from LatinLibrary.com.

1. Lucretius - On The Nature of Things (Bailey)

Preface to Epicurus College Edition

Except where noted, the following translation is based on that of Cyril Bailey, Oxford University Press, 1936 reprint of 1910 edition. A PDF of that edition is available at [Archive.org here](<https://archive.org/details/onnatu...up?view=theater>). A number of corrections were made by Bailey in his 1947 edition, and some of these, along with occasional notes from other sources, are incorporated in the transcription below. Please report any errors or suggested corrections to Cassius@Epicureanfriends.com.

Line numbers in brackets "[10]" are taken from the 1975 Loeb Edition, edited by Martin Ferguson Smith. All headings are added for ease of reference and are ****not**** a part of the original text, or of the Bailey translation.

1.1. Preface To Bailey 1936 Edition

No one can set about translating Lucretius into English without finding his head full of the great work of H.A.J. Munro. It is not only that certain striking phrases ring in one's ears - *vitai claustra,* 'the fastnesses of life,' *alte terminus haerens*, 'the deepset boundary-mark,' &c. -- but one is possessed with a strong feeling that he has finally set the tone or colour which Lucretius in English must assume. It might indeed be thought that with so fine a model in existence it is unnecessary and unprofitable to undertake the task again....

1.2. Book One

[01] MOTHER of Aeneas's sons, joy of men and gods, Venus the life-giver, who beneath the gliding stars of heaven fillest with life the sea that carries the ships and the land that bears the crops; for thanks to thee every tribe of living things is conceived, and comes forth to look upon the light of the sun. Thou, goddess, thou dost turn to flight the winds and the clouds of heaven, thou at thy coming; for thee earth, the quaint artificer, puts forth her sweet-scented flowers; for thee the levels of ocean smile, and the sky, its anger past, gleams with spreading light. For when once the face of the spring day is revealed and the teeming breeze of the west wind is loosed from prison and blows strong, first the birds in high heaven herald thee, goddess, and thine approach, their hearts thrilled with thy might. Then the tame beasts grow wild and bound over the fat pastures, and swim the racing rivers; so surely enchained by thy charm each follows thee in hot desire whither thou goest before to lead him on. Yea, through seas and mountains and tearing rivers and the leafy haunts of birds and verdant plains thou dost strike fond love into the hearts of all, and makest them in hot desire to renew the stock of their races, each after his own kind.

[21] And since thou alone art pilot to the nature of things, and nothing without thine aid comes forth into the bright coasts of light, nor waxes glad nor lovely, I long that thou shouldst be my helper in writing these verses, which I essay to trace on the nature of things for the son of the Memmii, my friend, whom thou, goddess, through all his life hast willed to be bright with every grace beyond his fellows. Therefore the more, goddess, grant a lasting loveliness to my words.

[29] Bring it to pass that meantime the wild works of warfare may be lulled to sleep over all seas and lands. For thou only canst bless mortal men with quiet peace, since 'tis Mavors, the lord of hosts, who guides the wild works of war, and he upon thy lap oft flings himself back, conquered by the eternal wound of love; and then pillowing his shapely neck upon thee and looking up he feeds with love his greedy eyes, gazing wistfully towards thee, while, as he lies back, his breath hangs upon thy lips. Do thou, goddess, as he leans resting on thy sacred limbs, bend to embrace him and pour forth sweet petition from thy lips, seeking, great lady, gentle peace for the Romans. For neither can we in our country's time of trouble set to our task with mind undistressed, nor amid such doings can Memmius's noble son fail the fortunes of the state.

For it must needs be that all the nature of the gods enjoys life everlasting in perfect peace, sundered and separated far away from our world. For free from all grief, free from danger, mighty in its own resources, never lacking aught of us, it is not won by virtuous service nor touched by wrath.[^1]

[^1]:

This same text also appears at Book 2, line 646. Smith speculates (*see* Smith's Hackett edition page 4) that its appearance here could be the result of an editor adding this here to give context to the hymn to Venus.

...

[50] For the rest, do thou (Memmius), lend empty ears and a keen mind, severed from cares, to true philosophy, lest, before they are understood, you should leave aside in disdain my gifts set forth for you with unflagging zeal. For of the most high law of the heaven and the gods I will set out to tell you, and I will reveal the first-beginnings of things, from which nature creates all things, and increases and fosters them, and into which nature too dissolves them again at their perishing: these in rendering our account it is our wont to call matter or the creative bodies of things, and to name them the seeds of things, and again to term them the first-bodies, since from them first all things have their being.

[62] When the life of man lay foul to see and grovelling upon the earth, crushed by the weight of religion, which showed her face from the realms of heaven, lowering upon mortals with dreadful mien, 'twas a man of Greece who dared first to raise his mortal eyes to meet her, and first to stand forth to meet her: him neither the stories of the gods nor thunderbolts checked, nor the sky with its revengeful roar, but all the more spurred the eager daring of his mind to yearn to be the first to burst through the close-set bolts upon the doors of nature. And so it was that the lively force of his mind won its way, and he passed on far beyond the fiery walls of the world, and in mind and spirit traversed the boundless whole; whence in victory he brings us tidings what can come to be and what cannot, yea and in what way each thing has its power limited, and its deepset boundary-stone. And so religion in revenge is cast beneath men's feet and trampled, and victory raises us to heaven.

[80] Herein I have one fear, lest perchance you think that you are starting on the principles of some unholy reasoning, and setting foot upon the path of sin. Nay, but on the other hand, again and again our foe, religion, has given birth to deeds sinful and unholy. Even as at Aulis the chosen chieftains of the Danai, the first of all the host, foully stained with the blood of Iphianassa the altar of the Virgin of the Cross-Roads. For as soon as the band braided about her virgin locks streamed from her either cheek in equal lengths, as soon as she saw her sorrowing sire stand at the altar's side, and near him the attendants hiding their knives, and her countrymen shedding tears at the sight of her, tongue-tied with terror, sinking on her knees she fell to earth. Nor could it avail the luckless maid at such a time that she first had given the name of father to the king. For seized by men's hands, all trembling was she led to the altars, not that, when the ancient rite of sacrifice was fulfilled, she might be escorted by the clear cry of 'Hymen', but in the very moment of marriage, a pure victim she might foully fall, sorrowing beneath a father's slaughtering stroke, that a happy and hallowed starting might be granted to the fleet. Such evil deeds could religion prompt.

[102] You yourself sometime vanquished by the fearsome threats of the seer's sayings, will seek to desert from us. Nay indeed, how many a dream may they even now conjure up before you, which might avail to overthrow your schemes of life, and confound in fear all your fortunes.

And justly so: for if men could see that there is a fixed limit to their sorrows, then with some reason they might have the strength to stand against the scruples of religion, and the threats of seers. As it is there is no means, no power to withstand, since everlasting is the punishment they must fear in death. For they know not what is the nature of the soul, whether it is born or else finds its way into them at their birth, and again whether it is torn apart by death and perishes with us, or goes to see the shades of Orcus and his waste pools, or by the gods' will implants itself in other breasts, as our own Ennius sang, who first bore down from pleasant Helicon the wreath of deathless leaves, to win bright fame among the tribes of Italian peoples. And yet despite this, Ennius sets forth in the discourse of his immortal verse that there is besides a realm of Acheron, where neither our souls nor bodies endure, but as it were images pale in wondrous wise; and thence he tells that the form of Homer, ever green and fresh, rose to him, and began to shed salt tears, and in converse to reveal the nature of things.

[127] Therefore we must both give good account of the things on high, in what way the courses of sun and moon come to be, and by what force all things are governed on earth, and also before all else we must see by keen reasoning, whence comes the soul and the nature of the mind, and what thing it is that meets us and affrights our minds in waking life, when we are touched with disease, or again when buried in sleep, so that we seem to see and hear hard by us those who have met death, and whose bones are held in the embrace of earth.

[136] Nor does it pass unnoticed of my mind that it is a hard task in Latin verses to set clearly in the light the dark discoveries of the Greeks, above all when many things must be treated in new words, because of the poverty of our tongue and the newness of the themes; yet your merit and the pleasure of your sweet friendship, for which I hope, urge me to bear the burden of any toil, and lead me on to watch through the calm nights, searching by what words, yea and in what measures, I may avail to spread before your mind a bright light, whereby you may see to the heart of hidden things.

[146] This terror then, this darkness of the mind, must needs be scattered not by the rays of the sun and the gleaming shafts of day, but by the outer view and the inner law of nature; whose first rule shall take its start for us from this, that nothing is ever begotten of nothing by divine will.

Fear forsooth so constrains all mortal men, because they behold many things come to pass on earth and in the sky, the cause of whose working they can by no means see, and think that a divine power brings them about. Therefore, when we have seen that nothing can be created out of nothing, then more rightly after that shall we discern that for which we search, both whence each thing can be created, and in what way all things come to be without the aid of gods.

[159] For if things came to being from nothing, every kind might be born from all things, nought would need a seed. First men might arise from the sea, and from the land the race of scaly creatures, and birds burst forth from the sky; cattle and other herds, and all the tribe of wild beasts, with no fixed law of birth, would haunt tilth and desert. Nor would the same fruits stay constant to the trees, but all would change: all trees might avail to bear all fruits. Why, were there not bodies to bring each thing to birth, how could things have a fixed unchanging mother? But as it is, since all things are produced from fixed seeds, each thing is born and comes forth into the coasts of light, out of that which has in it the substance and first-bodies of each; and 'tis for this cause that all things cannot be begotten of all, because in fixed things there dwells a power set apart.

[174] Or again, why do we see the roses in spring, and the corn in summer's heat, and the vines bursting out when autumn summons them, if it be not that when, in their own time, the fixed seeds of things have flowed together, then is disclosed each thing that comes to birth, while the season is at hand, and the lively earth in safety brings forth the fragile things into the coasts of light? But if they sprang from nothing, suddenly would they arise at uncertain intervals and in hostile times of year, since indeed there would be no first-beginnings which might be kept apart from creative union at an ill-starred season.

[184] Nay more, there would be no need for lapse of time for the increase of things upon the meeting of the seed, if they could grow from nothing. For little children would grow suddenly to youths, and at once trees would come forth, leaping from the earth. But of this it is well seen that nothing comes to pass, since all things grow slowly, as is natural, from a fixed seed, and as they grow preserve their kind: so that you can know that each thing grows great, and is fostered out of its own substance.

[192] There is this too, that without fixed rain-showers in the year the earth could not put forth its gladdening produce, nor again held apart from food could the nature of living things renew its kind or preserve its life; so that rather you may think that many bodies are common to many things, as we see letters are to words, than that without first-beginnings anything can come to being.

[199] Once more, why could not nature produce men so large that on their feet they might wade through the waters of ocean or rend asunder mighty mountains with their hands, or live to overpass many generations of living men, if it be not because fixed substance has been appointed for the begetting of things, from which it is ordained what can arise? Therefore, we must confess that nothing can be brought to being out of nothing, inasmuch as it needs a seed for things, from which each may be produced and brought forth into the gentle breezes of the air.

[208] Lastly, inasmuch as we see that tilled grounds are better than the untilled, and when worked by hands yield better produce, we must know that there are in the earth first-beginnings of things, which we call forth to birth by turning the teeming sods with the ploughshare and drilling the soil of the earth. But if there were none such, you would see all things without toil of ours or of their own will come to be far better.

[215] Then follows this, that nature breaks up each thing again into its own first-bodies, nor does she destroy ought into nothing. For if anything were mortal in all its parts, each thing would on a sudden be snatched from our eyes, and pass away. For there would be no need of any force, such as might cause disunion in its parts and unloose its fastenings. But as it is, because all things are put together of everlasting seeds, until some force has met them to batter things asunder with its blow, or to make its way inward through the empty voids and break things up, nature suffers not the destruction of anything to be seen.

[225] Moreover, if time utterly destroys whatsoever through age it takes from sight, and devours all its substance, how is it that Venus brings back the race of living things after their kind into the light of life, or when she has, how does earth, the quaint artificer, nurse and increase them, furnishing food for them after their kind? how is it that its native springs and the rivers from without, coming from afar, keep the sea full? how is it that the sky feeds the stars? For infinite time and the days that are gone by must needs have devoured all things that are of mortal body. But if in all that while, in the ages that are gone by, those things have existed, of which this sum of things consists and is replenished, assuredly they are blessed with an immortal nature; all things cannot then be turned to nought.

[238] And again, the same force and cause would destroy all things alike, unless an eternal substance held them together, part with part interwoven closely or loosely by its fastenings. For in truth a touch would be cause enough of death, seeing that none of these things would be of everlasting body, whose texture any kind of force would be bound to break asunder. But as it is, because the fastenings of the first-elements are variously put together, and their substance is everlasting, things endure with body unharmed, until there meets them a force proved strong enough to overcome the texture of each. No single thing then passes back to nothing, but all by dissolution pass back into the first-bodies of matter.

[250] Lastly, the rains pass away, when the sky, our father, has cast them headlong into the lap of earth, our mother; but the bright crops spring up, and the branches grow green upon the trees, the trees too grow and are laden with fruit; by them next our race and the race of beasts is nourished, through them we see glad towns alive with children, and leafy woods on every side ring with the young birds' cry; through them the cattle wearied with fatness lay their limbs to rest over the glad pastures, and the white milky stream trickles from their swollen udders; through them a new brood with tottering legs sports wanton among the soft grass, their baby hearts thrilling with the pure milk. Not utterly then perish all things that are seen, since nature renews one thing from out another, nor suffers anything to be begotten, unless she be requited by another's death.

[265] Come now, since I have taught you that things cannot be created of nought nor likewise when begotten be called back to nothing, lest by any chance you should begin nevertheless to distrust my words, because the first-beginnings of things cannot be descried with the eyes, let me tell you besides of other bodies, which you must needs confess yourself are among things and yet cannot be seen.

[271] First of all the might of the awakened wind lashes the ocean and o'erwhelms vast ships and scatters the clouds, and anon scouring the plains with tearing hurricane it strews them with great trees, and harries the mountain-tops with blasts that rend the woods: with such fierce whistling the wind rages and ravens with angry roar. There are therefore, we may be sure, unseen bodies of wind, which sweep sea and land, yea, and the clouds of heaven, and tear and harry them with sudden hurricane; they stream on and spread havoc in no other way than when the soft nature of water is borne on in a flood o'erflowing in a moment, swollen by a great rush of water dashing down from the high mountains after bounteous rains and hurling together broken branches from the woods, and whole trees too; nor can the strong bridges bear up against the sudden force of the advancing flood. In such wise, turbid with much rain, the river rushes with might and main against the piles: roaring aloud it spreads ruin, and rolls and dashes beneath its waves huge rocks and all that bars its flood. Thus then the blasts of wind too must needs be borne on; and when like some strong stream they have swooped towards any side, they push things and dash them on with constant assault; sometimes in eddying whirl they seize them up and bear them away in swiftly swirling hurricane. Wherefore again and again there are unseen bodies of wind, inasmuch as in their deeds and ways they are found to rival mighty streams, whose body all may see.

[298] Then again we smell the manifold scents of things, and yet we do not ever descry them coming to the nostrils, nor do we behold warm heat, nor can we grasp cold with the eyes, nor is it ours to descry voices; yet all these things must needs consist of bodily nature, inasmuch as they can make impact on our senses. For, if it be not body, nothing can touch and be touched.

[305] Once more, garments hung up upon the shore, where the waves break, grow damp, and again spread in the sun they dry. Yet never has it been seen in what way the moisture of the water has sunk into them, nor

again in what way it has fled before the heat. Therefore the moisture is dispersed into tiny particles, which the eyes can in no way see.

[311] Nay more, as the sun's year rolls round again and again, the ring on the finger becomes thin beneath by wearing, the fall of dripping water hollows the stone, the bent iron ploughshare secretly grows smaller in the fields, and we see the paved stone streets worn away by the feet of the multitude; again, by the city-gates the brazen statues reveal that their right hands are wearing thin through the touch of those who greet them ever and again as they pass upon their way. All these things then we see grow less, as they are rubbed away: yet what particles leave them at each moment, the envious nature of our sight has shut us out from seeing.

[322] Lastly, whatever time and nature adds little by little to things, impelling them to grow in due proportion, the straining sight of the eye can never behold, nor again wherever things grow old through time and decay. Nor where rocks overhang the sea, devoured by the thin salt spray, could you see what they lose at each moment. 'Tis then by bodies unseen that nature works her will.

[329] And yet all things are not held close pressed on every side by the nature of body; for there is void in things. To have learnt this will be of profit to you in dealing with many things; it will save you from wandering in doubt and always questioning about the sum of things, and distrusting my words. There is then a void, mere space untouchable and empty. For if there were not, by no means could things move; for that which is the office of body, to offend and hinder, would at every moment be present to all things; nothing, therefore, could advance, since nothing could give the example of yielding place. But as it is, through seas and lands and the high tracts of heaven, we descry many things by many means moving in diverse ways before our eyes, which, if there were not void, would not so much be robbed and balked of restless motion, but rather could in no way have been born at all, since matter would on every side be in close-packed stillness.

[346] Again, however solid things may be thought to be, yet from this you can discern that they are of rare body. In rocky caverns the liquid moisture of water trickles through, and all weeps with copious dripping: food spreads itself this way and that into the body of every living thing: trees grow and thrust forth their fruit in due season, because the food is dispersed into every part of them from the lowest roots through the stems and all the branches. Noises creep through walls and fly through the shut places in the house, stiffening cold works its way to the bones: but were there no empty spaces, along which each of these bodies might pass, you would not see this come to pass by any means.

[358] Again, why do we see one thing surpass another in weight, when its size is no whit bigger? For if there is as much body in a bale of wool as in lead, it is natural it should weigh as much, since 'tis the office of body to press all things downwards, but on the other hand the nature of void remains without weight. So because it is just as big, yet seems lighter, it tells us, we may be sure, that it has more void; but on the other hand the heavier thing avows that there is more body in it and that it contains far less empty space within. Therefore, we may be sure, that which we are seeking with keen reasoning, does exist mingled in things—that which we call void.

[370] Herein lest that which some vainly imagine should avail to lead you astray from the truth, I am constrained to forestall it. They say that the waters give place to the scaly creatures as they press forward and open up a liquid path, because the fishes leave places behind, to which the waters may flow together as they yield: and that even so other things too can move among themselves and change place, albeit the whole is solid. In very truth this is all believed on false reasoning. For whither, I ask, will the scaly creatures be able to move forward, unless the waters have left an empty space? again, whither will the waters be able to give place, when the fishes cannot go forward? either then we must deny motion to every body, or we must say that void is mixed with things, from which each thing can receive the first start of movement.

[384] Lastly, if two broad bodies leap asunder quickly from a meeting, surely it must needs be that air seizes upon all the void, which comes to be between the bodies. Still, however rapid the rush with which it streams together as its currents hasten round, yet in one instant the whole empty space cannot be filled: for it must needs be that it fills each place as it comes, and then at last all the room is taken up. But if by chance any

one thinks that when bodies have leapt apart, then this comes to be because the air condenses, he goes astray; for in that case that becomes empty which was not so before, and again that is filled which was empty before, nor can air condense in such a way, nor, if indeed it could, could it, I trow, without void draw into itself and gather into one all its parts.

[398] Wherefore, however long you hang back with much objection, you must needs confess at last that there is void in things. And besides by telling you many an instance, I can heap up proof for my words. But these light footprints are enough for a keen mind: by them you may detect the rest for yourself. For as dogs ranging over mountains often find by scent the lairs of wild beasts shrouded under leafage, when once they are set on sure traces of their track, so for yourself you will be able in such themes as this to see one thing after another, to win your way to all the secret places and draw out the truth thence. But if you are slack or shrink a little from my theme, this I can promise you, Memmius, on my own word: so surely will my sweet tongue pour forth to you bounteous draughts from the deep well-springs out of the treasures of my heart, that I fear lest sluggish age creep over our limbs and loosen within us the fastenings of life, before that the whole store of proofs on one single theme be launched in my verses into your ears.

[418] But now, to weave again at the web, which is the task of my discourse, all nature then, as it is of itself, is built of these two things: for there are bodies and the void, in which they are placed and where they move hither and thither. For that body exists is declared by the feeling which all share alike; and unless faith in this feeling be firmly grounded at once and prevail, there will be naught to which we can make appeal about things hidden, so as to prove aught by the reasoning of the mind. And next, were there not room and empty space, which we call void, nowhere could bodies be placed, nor could they wander at all hither and thither in any direction; and this I have above shown to you but a little while before.

[430] Besides these there is nothing which you could say is parted from all body and sundered from void, which could be discovered, as it were a third nature in the list. For whatever shall exist, must needs be something in itself; and if it suffer touch, however small and light, it will increase the count of body by a bulk great or maybe small, if it exists at all, and be added to its sum. But if it is not to be touched, inasmuch as it cannot on any side check anything from wandering through it and passing on its way, in truth it will be that which we call empty void. Or again, whatsoever exists by itself, will either do something or suffer itself while other things act upon it, or it will be such that things may exist and go on in it. But nothing can do or suffer without body, nor afford room again, unless it be void and empty space. And so besides void and bodies no third nature by itself can be left in the list of things, which might either at any time fall within the purview of our senses, or be grasped by any one through reasoning of the mind.

[449] For all things that have a name, you will find either properties linked to these two things or you will see them to be their accidents. That is a property which in no case can be sundered or separated without the fatal disunion of the thing, as is weight to rocks, heat to fire, moisture to water, touch to all bodies, intangibility to the void. On the other hand, slavery, poverty, riches, liberty, war, concord, and other things by whose coming and going the nature of things abides untouched, these we are used, as is natural, to call accidents. Even so time exists not by itself, but from actual things comes a feeling, what was brought to a close in time past, then what is present now, and further what is going to be hereafter. And it must be avowed that no man feels time by itself apart from the motion or quiet rest of things.

[464] Then again, when men say that 'the rape of Tyndarus's daughter', or 'the vanquishing of the Trojan tribes in war' are things, beware that they do not perchance constrain us to avow that these things exist in themselves, just because the past ages have carried off beyond recall those races of men, of whom, in truth, these were the accidents. For firstly, we might well say that whatsoever has happened is an accident in one case of the countries, in another even of the regions of space. Or again, if there had been no substance of things nor place and space, in which all things are carried on, never would the flame of love have been fired by the beauty of Tyndaris, nor swelling deep in the Phrygian heart of Alexander have kindled the burning battles of savage war, nor unknown of the Trojans would the timber horse have set Pergama aflame at dead of night, when the sons of the Greeks issued from its womb. So that you may see clearly that all events from first to last do not exist, and are not by themselves like body, nor can they be spoken of in the same way as the being of the void, but rather so that you might justly call them the accidents of body and place, in which

they are carried on, one and all.

[483] Bodies, moreover, are in part the first-beginnings of things, in part those which are created by the union of first-beginnings. Now the true first-beginnings of things, no force can quench; for they by their solid body prevail in the end. Albeit it seems hard to believe that there can be found among things anything of solid body. For the thunderbolt of heaven passes through walled houses, as do shouts and cries; iron grows white hot in the flame, and stones seethe in fierce fire and leap asunder; then too the hardness of gold is relaxed and softened by heat, and the ice of brass yields beneath the flame and melts; warmth and piercing cold ooze through silver, since when we have held cups duly in our hands we have felt both alike, when the dewy moisture of water was poured in from above. So true is it that in things there is seen to be nothing solid. But yet because true reasoning and the nature of things constrain us, give heed, until in a few verses we set forth that there are things which exist with solid and everlasting body, which we show to be the seeds of things and their first-beginnings, out of which the whole sum of things now stands created.

[503] First, since we have found existing a twofold nature of things far differing, the nature of body and of space, in which all things take place, it must needs be that each exists alone by itself and unmixed. For wherever space lies empty, which we call the void, body is not there; moreover, wherever body has its station, there is by no means empty void. Therefore the first bodies are solid and free from void.

[511] Moreover, since there is void in things created, solid matter must needs stand all round, nor can anything by true reasoning be shown to hide void in its body and hold it within, except you grant that what keeps it in is solid. Now it can be nothing but a union of matter, which could keep in the void in things. Matter then, which exists with solid body, can be everlasting, when all else is dissolved.

[520] Next, if there were nothing which was empty and void, the whole would be solid; unless on the other hand there were bodies determined, to fill all the places that they held, the whole universe would be but empty void space. Body, then, we may be sure, is marked off from void turn and turn about, since there is neither a world utterly full nor yet quite empty. There are therefore bodies determined, such as can mark off void space from what is full. These cannot be broken up when hit by blows from without, nor again can they be pierced to the heart and undone, nor by any other way can they be assailed and made to totter; all of which I have above shown to you but a little while before. For it is clear that nothing could be crushed in without void, or broken or cleft in twain by cutting, nor admit moisture nor likewise spreading cold or piercing flame, whereby all things are brought to their end. And the more each thing keeps void within it, the more is it assailed to the heart by these things and begins to totter. Therefore, if the first bodies are solid and free from void, as I have shown, they must be everlasting.

[540] Moreover, if matter had not been everlasting, ere this all things had wholly passed away to nothing, and all that we see had been born again from nothing. But since I have shown above that [nothing can be created from nothing](#), nor can what has been begotten be summoned back to nothing, the first-beginnings must needs be of immortal body, into which at their last day all things can be dissolved, that there may be matter enough for renewing things. Therefore the first-beginnings are of solid singleness, nor in any other way can they be preserved through the ages from infinite time now gone and renew things.

[551] Again, if nature had ordained no limit to the breaking of things, by now the bodies of matter would have been so far brought low by the breaking of ages past, that nothing could be conceived out of them within a fixed time, and pass on to the full measure of its life; for we see that anything you will is more easily broken up than put together again. Wherefore what the long limitless age of days, the age of all time that is gone by, had broken ere now, disordering and dissolving, could never be renewed in all time that remains. But as it is, a set limit to breaking has, we may be sure, been appointed, since we see each thing put together again, and at the same time fixed seasons ordained for all things after their kind, in the which they may be able to reach the flower of their life.

[565] There is this too that, though the first-bodies of matter are quite solid, yet we can give account of all the soft things that come to be, air, water, earth, fires, by what means they come to being, and by what force each goes on its way, when once void has been mingled in things. But on the other hand, if the first-

beginnings of things were to be soft, it will not be possible to give account whence hard flints and iron can be created; for from the first all nature will lack a first-beginning of foundation. There are then bodies that prevail in their solid singleness, by whose more close-packed union all things can be riveted and reveal their stalwart strength.

[577] Moreover, if no limit has been appointed to the breaking of things, still it must needs be that all the bodies of things survive even now from time everlasting, such that they cannot yet have been assailed by any danger. But since they exist endowed with a frail nature, it is not in harmony with this that they have been able to abide for everlasting time harried through all the ages by countless blows.

[584] Once again, since there has been appointed for all things after their kind a limit of growing and of maintaining life, and inasmuch as it stands ordained what all things severally can do by the laws of nature, and what too they cannot, nor is anything so changed, but that all things stand so fast that the diverse birds all in their due order show that the marks of their kind are on their body, they must also, we may be sure, have a body of unchanging substance. For if the first-beginnings of things could be vanquished in any way and changed, then, too, would it be doubtful what might come to being, what might not, yea, in what way each thing has its power limited and its deepset boundary-stone, nor could the tribes each after their kind so often recall the nature, habits, manner of life and movements of the parents.

[599] Then, further, since there are extreme points, one after another \[on bodies, which are the least things we can see, likewise, too, there must be a least point\] on that body, which our senses can no longer descry; that point, we may be sure, exists without parts and is endowed with the least nature, nor was it ever sundered apart by itself nor can it so be hereafter, since it is itself but a part of another and that the first single part: then other like parts and again others in order in close array make up the nature of the first body, and since they cannot exist by themselves, it must needs be that they stay fast there whence they cannot by any means be torn away. The first-beginnings then are of solid singleness; for they are a close dense mass of least parts, never put together out of a union of those parts, but rather prevailing in everlasting singleness; from them nature, keeping safe the seeds of things, suffers not anything to be torn away, nor ever to be removed.

[615] Moreover, if there be not a least thing, all the tiniest bodies will be composed of infinite parts, since indeed the half of a half will always have a half, nor will anything set a limit. What difference then will there be between the sum of things and the least of things? There will be no difference; for however completely the whole sum be infinite, yet things that are tiniest will be composed of infinite parts just the same. And since true reasoning cries out against this, and denies that the mind can believe it, you must be vanquished and confess that there are those things which consist of no parts at all and are of the least nature. And since these exist, those first-beginnings too you must needs own are solid and everlasting.

[628] And again, if nature, the creatress, had been used to constrain all things to be dissolved into their least parts, then she could not again renew aught of them, for the reason that things which are not enlarged by any parts, have not those powers which must belong to creative matter, the diverse fastenings, weights, blows, meetings, movements, by which all things are carried on.

[635] Wherefore those who have thought that fire is the substance of things, and that the whole sum is composed of fire alone, are seen to fall very far from true reasoning. Heraclitus is their leader who first enters the fray, of bright fame for his dark sayings, yet rather among the empty-headed than among the Greeks of weight, who seek after the truth. For fools laud and love all things more which they can descry hidden beneath twisted sayings, and they set up for true what can tickle the ear with a pretty sound and is tricked out with a smart ring.

[645] For I am eager to know how things could be so diverse, if they are created of fire alone and unmixed. For it would be of no avail that hot fire should condense or grow rare, if the parts of fire had the same nature which the whole sum of fire has as well. For fiercer would be the flame, if the parts were drawn together, and weaker again, were they sundered and scattered. But further than this there is nothing which you can think might come to pass from such a cause, far less might the great diversity of things come from fires condensed

and rare.

[655] This too there is: if they were to hold that void is mingled in things, the fires will be able to condense or be left rare. But because they see many things to thwart them, they hold their peace and shrink from allowing void unmixed among things; while they fear the heights, they lose the true track, nor again do they perceive that, if void be removed from things, all things must condense and be made one body out of many, such as could not send out anything from it in hot haste; even as fire that brings warmth casts abroad light and heat, so that you may see that it has not parts close-packed.

[665] But if perchance they believe that in some other way fires may be quenched in union and alter their substance, in very truth if they do not spare to do this at any point, then, we may be sure, all heat will perish utterly to nothing, and all things created will come to be out of nothing. For whenever a thing changes and passes out of its own limits, straightway this is the death of that which was before. Indeed something must needs be left untouched to those fires, lest you find all things returning utterly to nothing, and the store of things born again and growing strong out of nothing. As it is then, since there are certain bodies most determined which keep nature safe ever the same, through whose coming and going and shifting order things change their nature and bodies are altered, you can be sure that these first-bodies of things are not of fire. For it would be no matter that some should give place and pass away, and others be added, and some changed in order, if despite this all retained the nature of heat; for whatever they might create would be in every way fire. But, I trow, the truth is this; there are certain bodies, whose meetings, movements, order, position, and shapes make fires, and when their order changes, they change their nature, and they are not made like to fire nor to any other thing either, which is able to send off bodies to our senses and touch by collision our sense of touch.

[690] Moreover, to say that fire is all things, and that there is no other real thing in the whole count of things, but only fire, as this same Heraclitus does, seems to be raving frenzy. For on behalf of the senses he fights himself against the senses, and undermines those on which all that he believes must hang, whereby he himself has come to know that which he names fire. For he believes that the senses can know fire aright, but not all other things, which are no whit less bright to see. And this seems to me alike idle and frenzied. For to what shall we appeal? What can be surer for us than the senses themselves, whereby we may mark off things true and false?

[701] Besides, why should any one rather annul all things, and wish to leave only the nature of heat, than deny that fire exists, and grant in its stead that another nature exists? For it seems equal madness to say the one or the other.

[705] Wherefore those who have thought that fire is the substance of things, and that the whole sum may be built of fire, and those who have set up air as the first-beginning for the begetting of things, or again all who have thought that moisture fashions things alone by itself, or that earth creates all and passes into all the natures of things, seem to have strayed very far away from the truth. Add to them too those who make the first-beginnings of things twofold, linking air to fire or earth to water, and those who think that all can grow up out of four things, fire, earth, wind, and rain. Of them in the forefront comes Empedocles of Acragas; him that island bore within the three-cornered coasts of its lands, around which flows the Ionian ocean, with many a winding inlet, splashing salt foam from its green waves, while with narrow strait a tearing sea sunders with its waves the coasts of Italy's lands from the island-borders. Here is devastating Charybdis, and here the rumblings of Aetna threaten to gather once more the flames of its wrath, that again in its might it may belch forth the fires bursting from its throat, and once more dash to the sky its flashing flames. And though this mighty country seems in many ways marvelous to the tribes of men, and is said to deserve seeing, rich in goodly things, and strengthened with a mighty wealth of men, yet it is seen to have held nothing in it more glorious than this man, nothing more holy, more marvelous and loved. Nay, the songs of his godlike heart lift up their voice and set forth his glorious discoveries, so that he seems scarce born of human stock.

[734] Yet he and those whom I named before, weaker than he by exceeding many degrees, and far beneath him, though they discovered much in good, nay godlike fashion, and gave answers as from the shrine of their hearts in more holy wise and with reasoning far more sure than the Pythian priestess who speaks out from

the tripod and laurel of Phoebus, yet in the first-beginnings of things they came to grief: great were they, and great and heavy their fall therein. First because they take away the void from things, but suppose movement, and leave things soft and rare, air, sunlight, fire, earth, beasts, and crops, and yet mingle no void in their body. Then because they hold that there is no limit at all to the cutting of bodies, that no halting-place is set to their breaking, nor again is there any least among things. And that when we see that there is that extreme point in each thing, which is seen to be the least to our senses, so that you can infer from this that the extreme point in things which you cannot see is the least in them. Then follows this that, since they suppose the first-beginnings of things soft, things which we see come to birth and endowed throughout with a mortal body, the whole sum of things must then return to naught, and the store of things be born again, and grow strong out of nothing. And how far both this and that are from the truth, you will know by now. Then again, these things are in many ways hostile, nay poison, the one to the other; therefore either when they meet they will pass away, or they will so fly apart, as when a storm gathers we see the thunderbolts and rain and wind fly asunder.

[763] Again, if from four things all are created and all again are dissolved into those things, how can they be called the first-beginnings of things any more than things the first-beginnings of them, with our thought reversed? For they are begotten turn by turn, and change their colour and all their nature one with the other from all time onward. But if perchance you think that the body of fire and the body of earth and the breezes of the air and the dewy moisture so unite, that in union no one of them changes its nature, you will see that nothing can be created out of them, no, not a living thing, nor one with lifeless body, like a tree. Indeed in the mingling of this diverse mass each thing will reveal its own nature, and air will be seen to be mixed together with earth, and heat to cleave to moisture. But first-beginnings ought in the begetting of things to bring to bear a secret and unseen nature, that nothing may stand out which might bar and thwart whatever is created from existing with its own true being.

[782] But indeed they trace it back to heaven and heaven's fires, and hold that fire first turns itself into the breezes of the sky, that thence is begotten rain, and of rain is created earth, and then all things pass back again from earth, first moisture, next air, then heat, and that these things never cease their mutual changes, in their path from heaven to earth, from earth to the stars of the firmament. But the first-beginnings ought in no wise to do this. For it must needs be that something abides unchangeable, that all things be not altogether brought to naught. For whenever a thing changes and passes out of its own limits, straightway this is the death of that which was before. Wherefore since the things we have named a little before pass into a state of interchange, they must needs be made of other things, which cannot in any case be altered, lest you find all things returning altogether to naught. Why not rather suppose that there are certain bodies endowed with such a nature, and that, if by chance they have created fire, they can too, when a few are removed and a few added, and their order and movement is changed, make the breezes of the sky, and that thus all things are changed one into another?

[803] 'But,' you say, 'the facts show clearly that all things are nourished and grow from the earth up into the breezes of the sky; and unless the season at a propitious time fosters them with rain, so that the trees rock beneath the outpouring of the storm-clouds, and the sun for its part cherishes them, and bestows its heat on them, crops, trees, living creatures, none could grow.' Yes, in very truth, unless we too were nurtured by dry food and soft moisture, we should lose our flesh, and all the life too would be loosened from all our sinews and bones. For beyond all doubt we are nurtured and nourished upon things determined, and other things again, each in their turn, on things determined. Yea, we may be sure, it is because many first-beginnings common in many ways to many things are mingled among things, that so diverse things are nourished on diverse food. And often it is of great matter with what others those first-beginnings are bound up, and in what position, and what movements they mutually give and receive; for the same build up sky, sea, earth, rivers, sun, the same too crops, trees, living creatures, but only when mingled with different things and moving in different ways.

[823] Indeed scattered abroad in my verses you see many letters common to many words, and yet you must needs grant that verses and words are unlike both in sense and in the ring of their sound. So great is the power of letters by a mere change of order. But the first-beginnings of things can bring more means to bear, by which all diverse things may be created.

[830] Now let us also search into the homoeomeria of Anaxagoras, as the Greeks term it, though the poverty of our country's speech does not suffer us to name it in our own tongue; nevertheless the thing itself it is easy to set forth in words.

[834] First—what he calls the homoeomeria of things—you must know that he thinks that bones are made of very small and tiny bones, and flesh of small and tiny pieces of flesh, and blood is created of many drops of blood coming together in union, and that gold again can be built up of grains of gold, and the earth grow together out of little earths, that fire is made of fires, and water of water-drops, and all the rest he pictures and imagines in the same way. And yet he does not allow that there is void in things on any side, nor that there is a limit to the cutting up of bodies. Therefore in this point and that he seems to me to go astray just as they did, of whom I told above.

[847] Add too to this that he pictures his first-beginnings too weak: if indeed those are first-beginnings, which exist endowed with a nature like things themselves, which suffer none the less, and pass away, nor does anything rein them back from their destruction. For which of them all will hold out beneath strong pressure, so as to escape death in the very jaws of destruction? fire or moisture or breeze? which of these? blood or bones? Not one, I trow, when everything alike will be altogether as mortal as the things we see clearly before our eyes vanquished by some violence and passing away. But that things cannot fall away into nothing, nor again grow from nothing, I call to witness what I have before now proved.

[859] Moreover, since 'tis food that increases and nourishes the body, you may know that our veins and blood and bones \[and sinews are created of parts alien in kind\]; or if they say that all foods are of mingled substance, and have in them little bodies of sinews, and bones and indeed veins and portions of gore, then it will be that all food, both dry, yes and liquid too, must be thought to consist of things alien in kind, of bones and sinews and matter and blood mingled together. Moreover, if all bodies that grow from out the earth are in the earth, the earth must be composed of things alien in kind, which rise up out of the earth. Shift this to another field, you may use the same words again. If in logs flame lurks hidden, and smoke and ash, it must needs be that the logs are composed of things alien in kind. Moreover, all the bodies which the earth nourishes, it increases \[from things alien in kind, which rise up out of the earth. So too the bodies which logs emit, are nourished\] upon things alien in kind, which rise up out of the logs.

[875] Herein there is left a slight chance of hiding from justice, which Anaxagoras grasps for himself, to hold that all things are mingled, though in hiding, in all things, but that that one thing comes out clear, whereof there are most parts mingled in, stationed more ready to view and in the forefront. But this is very far banished from true reasoning. For it were right then that corn also, when crushed by the threatening strength of rock, should often give out some sign of blood, or one of those things which are nourished in our body, and that when we rub it with stone on stone, gore should ooze forth. In the same way it were fitting that blades of grass too and pools of water should often give out sweet drops with a savour like the richness of the milk of fleecy beasts, and that often when sods of earth are crumbled, kinds of grasses and corn and leaves should be seen, hiding in tiny form, scattered about among the earth, lastly that ash and smoke should be seen in logs, when they were broken off, and tiny flames in hiding. But since facts clearly show that none of these things comes to pass, you may be sure that things are not so mingled in other things, but that seeds common to many things lie mingled and hidden in things in many ways.

[897] 'But often on mighty mountains it comes to pass,' you say, 'that the neighboring tops of tall trees rub together, when the strong south winds constrain them to it, until at last a flowery flame gathers, and they blaze with fire.' And yet you must know that fire is not implanted in their wood, but there are many seeds of heat, which when they have flowed together through the rubbing, create fires in the forests. But if the flame had been hidden away ready-made in the forests, the fires could not have been concealed for any time, they would consume the forests one and all, and burn the trees to ashes. Do you not then see now, what I said but a little while ago, that it is of very great matter often with what others those same first-beginnings are bound up, and in what position, and what movements they mutually give and receive, and that the same a little changed with one another can create beams or flames? Even as the words themselves have their letters but little changed, when with sound distinct we signify beams or flames.

[915] Once again, if you think that all that you can descry in things clear to be seen cannot come to being, but that you must suppose first-bodies of matter endowed with a nature like the whole, by this reasoning you see the first-beginnings of things pass away. Nay, it will come to be that they will be shaken with quivering mirth and laugh aloud, and wet face and cheeks with salt tears.

[921] Come now, learn what remains, and listen to clearer words. Nor do I fail to see in mind how dark are the ways; but a great hope has smitten my heart with the sharp spur of fame, and at once has struck into my breast the sweet love of the muses, whereby now inspired with strong mind I traverse the distant haunts of the Pierides, never trodden before by the foot of man. 'Tis my joy to approach those untasted springs and drink my fill, 'tis my joy to pluck new flowers and gather a glorious coronal for my head from spots whence before the muses have never wreathed the forehead of any man. First because I teach about great things, and hasten to free the mind from the close bondage of religion, then because on a dark theme I trace verses so full of light, touching all with the muses' charm. For that too is seen to be not without good reason; but even as healers, when they essay to give loathsome wormwood to children, first touch the rim all round the cup with the sweet golden moisture of honey, so that the unwitting age of children may be beguiled as far as the lips, and meanwhile may drink the bitter draught of wormwood, and though charmed may not be harmed, but rather by such means may be restored and come to health; so now, since this philosophy full often seems too bitter to those who have not tasted it, and the multitude shrinks back away from it, I have desired to set forth to you my reasoning in the sweet-tongued song of the muses, and as though to touch it with the pleasant honey of poetry, if perchance I might avail by such means to keep your mind set upon my verses, while you come to see the whole nature of things, what is its shape and figure.

[951] But since I have taught that the most solid bodies of matter fly about for ever unvanquished through the ages, come now, let us unfold, whether there be a certain limit to their full sum or not; and likewise the void that we have discovered, or room or space, in which all things are carried on, let us see clearly whether it is all altogether bounded or spreads out limitless and immeasurably deep.

[958] The whole universe then is bounded in no direction of its ways; for then it would be bound to have an extreme point. Now it is seen that nothing can have an extreme point, unless there be something beyond to bound it, so that there is seen to be a spot further than which the nature of our sense cannot follow it. As it is, since we must admit that there is nothing outside the whole sum, it has not an extreme point, it lacks therefore bound and limit. Nor does it matter in which quarter of it you take your stand; so true is it that, whatever place every man takes up, he leaves the whole boundless just as much on every side.

[968] Moreover, suppose now that all space were created finite, if one were to run on to the end, to its furthest coasts, and throw a flying dart, would you have it that that dart, hurled with might and main, goes on whither it is sped and flies afar, or do you think that something can check and bar its way? For one or the other you must needs admit and choose. Yet both shut off your escape and constrain you to grant that the universe spreads out free from limit. For whether there is something to check it and bring it about that it arrives not whither it was sped, nor plants itself in the goal, or whether it fares forward, it set not forth from the end. In this way I will press on, and wherever you shall set the furthest coasts, I shall ask what then becomes of the dart. It will come to pass that nowhere can a bound be set and room for flight ever prolongs the chance of flight. Lastly, before our eyes one thing is seen to bound another; air is as a wall between the hills, and mountains between tracts of air, land bounds the sea, and again sea bounds all lands; yet the universe in truth there is nothing to limit outside.

[984] Moreover, if all the space in the whole universe were shut in on all sides, and were created with borders determined, and had been bounded, then the store of matter would have flowed together with solid weight from all sides to the bottom, nor could anything be carried on beneath the canopy of the sky, nor would there be sky at all, nor the light of the sun, since in truth all matter would lie idle piled together by sinking down from limitless time. But as it is, no rest, we may be sure, has been granted to the bodies of the first-beginnings, because there is no bottom at all, whither they may, as it were, flow together, and make their resting-place. All things are for ever carried on in ceaseless movement from all sides, and bodies of matter, are even stirred up and supplied from beneath out of limitless space.

Loeb here has [998] Lastly, one thing is seen before our eyes to be the limit of another; air separates hills and mountains air, earth bounds sea and contrariwise the sea is the boundary of all lands; the universe, however, has nothing outside to be its limit.

[1002] The nature of room then and the space of the deep is such that neither could the bright thunderbolts course through it in their career, gliding on through the everlasting tract of time, nor bring it about that there remain a whit less to traverse as they travel; so far on every side spreads out huge room for things, free from limit in all directions everywhere.

[1008] Nay more, nature ordains that the sum of things may not have power to set a limit to itself, since she constrains body to be bounded by void, and all that is void to be bounded by body, so that thus she makes the universe infinite by their interchange, or else at least one of the two, if the other of them bound it not, yet spreads out immeasurable with nature unmixed. But space I have taught above spreads out without limit. If then the sum of matter were bounded, neither sea nor earth nor the gleaming quarters of heaven nor the race of mortal men, nor the hallowed bodies of the gods could exist for the short space of an hour. For driven apart from its unions the store of matter would be carried all dissolved through the great void, or rather in truth it could never have grown together and given birth to anything, since scattered abroad it could not have been brought to meet.

[1021] For in very truth, not by design did the first-beginnings of things place themselves each in their order with foreseeing mind, nor indeed did they make compact what movements each should start, but because many of them shifting in many ways throughout the world are harried and buffeted by blows from limitless time, by trying movements and unions of every kind, at last they fall into such dispositions as those, whereby our world of things is created and holds together. And it too, preserved from harm through many a mighty cycle of years, when once it has been cast into the movements suited to its being, brings it about that the rivers replenish the greedy sea with the bounteous waters of their streams, and the earth, fostered by the sun's heat, renews its increase, and the race of living things flourishes, sent up from her womb, and the gliding fires of heaven are alive; all this they would in no wise do, unless store of matter might rise up from limitless space, out of which they are used to renew all their losses in due season.

[1037] For even as the nature of living things, robbed of food, loses its flesh and pines away, so all things must needs be dissolved, when once matter has ceased to come for their supply, turned aside in any way from its due course. Nor can blows from without on all sides keep together the whole of each world which has come together in union. For they can smite on it once and again, and keep a part in place, until others come, and the sum may be supplied. Yet sometimes they are constrained to rebound and at once afford space and time for flight to the first-beginnings of things, so that they can pass away freed from union. Therefore, again and again, it must be that many things rise up, yea, and in order that even the blows too may not fail, there must needs be limitless mass of matter on all sides.

[1052] Herein shrink far from believing, Memmius, what some say: that all things press towards the centre of a sum, and that 'tis for this cause that the nature of the world stands fast without any blows from outside, and that top and bottom cannot part asunder in any direction, because all things are pressing upon the centre (if indeed you can believe that anything can stand upon itself): and that all heavy things which are beneath the earth press upwards, and rest placed upside down upon the earth, like the images of things which we see, as it is, through water. And in the same way they maintain that living things walk head downwards, and cannot fall off the earth into the spaces of heaven beneath them any more than our bodies can of their free will fly up into the quarters of heaven: that when they see the sun, we are descrying the stars of night, and that they share with us turn by turn the seasons of the sky, and pass nights equal to our days.

[1067] But empty error has commended these false ideas to fools, because they embrace and hold a theory with twisted reasoning. For there can be no centre, since the universe is created infinite. Nor, if indeed there were a centre, could anything at all rest there any more for that, rather than be driven away for some far different reason: for all room and space, which we call void, must through centre or not-centre give place alike to heavy bodies, wherever their motions tend. Nor is there any place, to which when bodies have come, they can lose the force of their weight and stand still in the void; nor must aught that is void support anything,

but rather hasten to give place, as its own nature desires. It cannot be then that things can be held together in union in such a way, constrained by a yearning for the centre.

[1083] Moreover, since they do not pretend that all bodies press towards the centre, but only those of earth and liquid, the moisture of the sea and mighty waters from the mountains, and those things which are, as it were, enclosed in an earthy frame; but on the other hand, they teach that the thin breezes of air and hot fires at the same time are carried away from the centre, and that for this cause all the sky around is twinkling with stars, and the flame of the sun is fed through the blue tracts of heaven, because all the heat fleeing from the centre gathers itself together there; nor again can the topmost branches grow leafy upon trees, unless from the earth little by little each has food \[supplied by nature, their thoughts are not at harmony with themselves. There must then be an infinite store of matter\], lest after the winged way of flames the walls of the world suddenly fly apart, dissolved through the great void, and lest all else follow them in like manner, or the thundering quarters of the sky fall down from above, and the earth in hot haste withdraw itself from beneath our feet, and amid all the mingled ruin of things on earth and of the sky, whereby the frames of bodies are loosed, it pass away through the deep void, so that in an instant of time not a wrack be left behind, except emptied space and unseen first-beginnings. For on whatever side you maintain that the bodies fail first, this side will be the gate of death for things, by this path will all the throng of matter cast itself abroad.

[1107] These things you will learn thus, led on with little trouble; for one thing after another shall grow clear, nor will blind night snatch away your path from you, but that you shall see all the utmost truths of nature: so shall things kindle a light for others.

1.3. Book Two

[01] SWEET it is, when on the great sea the winds are buffeting the waters, to gaze from the land on another's great struggles; not because it is pleasure or joy that any one should be distressed, but because it is sweet to perceive from what misfortune you yourself are free. Sweet is it too, to behold great contests of war in full array over the plains, when you have no part in the danger. But nothing is more gladdening than to dwell in the calm high places, firmly embattled on the heights by the teaching of the wise, whence you can look down on others, and see them wandering hither and thither, going astray as they seek the way of life, in strife matching their wits or rival claims of birth, struggling night and day by surpassing effort to rise up to the height of power and gain possession of the world.

Ah! miserable minds of men, blind hearts! in what darkness of life, in what great dangers ye spend this little span of years! To think that ye should not see that nature cries aloud for nothing else but that pain may be kept far sundered from the body, and that, withdrawn from care and fear, she may enjoy in mind the sense of pleasure!

[20] And so we see that for the body's nature but few things at all are needful, even such as can take away pain. Yea, though pleasantly enough from time to time they can prepare for us in many ways a lap of luxury, yet nature herself feels no loss, if there are not golden images of youths about the halls, grasping fiery torches in their right hands, that light may be supplied to banquets at night, if the house does not glow with silver or gleam with gold, nor do fretted and gilded ceilings re-echo to the lute. And yet, for all this, men lie in friendly groups on the soft grass near some stream of water under the branches of a tall tree, and at no great cost delightfully refresh their bodies, above all when the weather smiles on them, and the season of the year bestrews the green grass with flowers. Nor do fiery fevers more quickly quit the body, if you toss on brodered pictures and blushing purple, than if you must lie on the poor man's plaid.

[37] Wherefore since in our body riches are of no profit, nor high birth nor the glories of kingship, for the rest, we must believe that they avail nothing for the mind as well; unless perchance, when you see your legions swarming over the spaces of the Campus, and provoking a mimic war, strengthened with hosts in reserve and forces of cavalry, when you draw them up equipped with arms, all alike eager for the fray, when you see the army wandering far and wide in busy haste, then alarmed by all this the scruples of religion fly in panic

from your mind, or that the dread of death leaves your heart empty and free from care.

But if we see that these thoughts are mere mirth and mockery, and in very truth the fears of men and the cares that dog them fear not the clash of arms nor the weapons of war, but pass boldly among kings and lords of the world, nor dread the glitter that comes from gold nor the bright sheen of the purple robe, can you doubt that all such power belongs to reason alone, above all when the whole of life is but a struggle in darkness?

For even as children tremble and fear everything in blinding darkness, so we sometimes dread in the light things that are no whit more to be feared than what children shudder at in the dark, and imagine will come to pass. This terror then, this darkness of the mind, must needs be scattered not by the rays of the sun and the gleaming shafts of day, but by the outer view and the inner law of nature.

[62] Come now, I will unfold by what movement the creative bodies of matter beget diverse things, and break up those that are begotten, by what force they are constrained to do this, and what velocity is appointed them for moving through the mighty void: do you remember to give your mind to my words.

[67] For in very truth matter does not cleave close-packed to itself, since we see each thing grow less, and we perceive all things flow away, as it were, in the long lapse of time, as age withdraws them from our sight: and yet the universe is seen to remain undiminished, inasmuch as all bodies that depart from anything, lessen that from which they pass away, and bless with increase that to which they have come; they constrain the former to grow old and the latter again to flourish, and yet they abide not with it. Thus the sum of things is ever being replenished, and mortals live one and all by give and take. Some races wax and others wane, and in a short space the tribes of living things are changed, and like runners hand on the torch of life.

[80] If you think that the first-beginnings of things can stay still, and by staying still beget new movements in things, you stray very far away from true reasoning. For since they wander through the void, it must needs be that all the first-beginnings of things move on either by their own weight or sometimes by the blow of another.

For when quickly, again and again, they have met and clashed together, it comes to pass that they leap asunder at once this way and that; for indeed it is not strange, since they are most hard with solid heavy bodies, and nothing bars them from behind. And the more you perceive all the bodies of matter tossing about, bring it to mind that there is no lowest point in the whole universe, nor have the first-bodies any place where they may come to rest, since I have shown in many words, and it has been proved by true reasoning, that space spreads out without bound or limit, immeasurable towards every quarter everywhere.

And since that is certain, no rest, we may be sure, is allowed to the first-bodies moving through the deep void, but rather plied with unceasing, diverse motion, some when they have dashed together leap back at great space apart, others too are thrust but a short way from the blow. And all those which are driven together in more close-packed union and leap back but a little space apart, entangled by their own close-locking shapes, these make the strong roots of rock and the brute bulk of iron and all other things of their kind. Of the rest which wander through the great void, a few leap far apart, and recoil afar with great spaces between; these supply for us thin air and the bright light of the sun. Many, moreover, wander on through the great void, which have been cast back from the unions of things, nor have they anywhere else availed to be taken into them and link their movements.

[112] And of this truth, as I am telling it, a likeness and image is ever passing presently before our eyes. For look closely, whenever rays are let in and pour the sun's light through the dark places in houses: for you will see many tiny bodies mingle in many ways all through the empty space right in the light of the rays, and as though in some everlasting strife wage war and battle, struggling troop against troop, nor ever crying a halt, harried with constant meetings and partings; so that you may guess from this what it means that the first-beginnings of things are for ever tossing in the great void. So far as may be, a little thing can give a picture of great things and afford traces of a concept.

[125] And for this reason it is the more right for you to give heed to these bodies, which you see jostling in the sun's rays, because such jostlings hint that there are movements of matter too beneath them, secret and

unseen. For you will see many particles there stirred by unseen blows change their course and turn back, driven backwards on their path, now this way, now that, in every direction everywhere. You may know that this shifting movement comes to them all from the first-beginnings. For first the first-beginnings of things move of themselves; then those bodies which are formed of a tiny union, and are, as it were, nearest to the powers of the first-beginnings, are smitten and stirred by their unseen blows, and they in their turn, rouse up bodies a little larger. And so the movement passes upwards from the first-beginnings, and little by little comes forth to our senses, so that those bodies move too, which we can descry in the sun's light; yet it is not clearly seen by what blows they do it.

[142] Next, what speed of movement is given to the first-bodies of matter, you may learn, Memmius, in a few words from this. First, when dawn strews the land with new light, and the diverse birds flitting through the distant woods across the soft air fill the place with their clear cries, we see that it is plain and evident for all to behold how suddenly the sun is wont at such a time to rise and clothe all things, bathing them in his light. And yet that heat which the sun sends out, and that calm light of his, is not passing through empty space; therefore, it is constrained to go more slowly, while it dashes asunder, as it were, the waves of air. Nor again do the several particles of heat move on one by one, but entangled one with another, and joined in a mass; therefore they are at once dragged back each by the other, and impeded from without, so that they are constrained to go more slowly.

But the first-beginnings, which are of solid singleness, when they pass through the empty void, and nothing checks them without, and they themselves, single wholes with all their parts, are borne, as they press on, towards the one spot which they first began to seek, must needs, we may be sure, surpass in speed of motion, and be carried far more quickly than the light of the sun, and rush through many times the distance of space in the same time in which the flashing light of the sun crowds the sky.

[165] nor to follow up each of the first-beginnings severally, to see by what means each single thing is carried on.

[167] Yet a certain sect, against all this, ignorant \[that the bodies\] of matter \[fly on of their own accord, unvanquished through the ages,\] believe that nature cannot without the power of the gods, in ways so nicely tempered to the needs of men, change the seasons of the year, and create the crops, and all else besides, which divine pleasure wins men to approach, while she herself, the leader of life, leads on and entices them by the arts of Venus to renew their races, that the tribe of mankind may not perish.

But when they suppose that the gods have appointed all things for the sake of men, they are seen in all things to fall exceeding far away from true reason. For however little I know what the first-beginnings of things are, yet this I would dare to affirm from the very workings of heaven, and to prove from many other things as well, that the nature of the world is by no means made by divine grace for us: so great are the flaws with which it stands beset. And this, Memmius, I will make clear to you hereafter. Now I will set forth what yet remains about the movements.

[184] Now is the place, I trow, herein to prove this also to you, that no bodily thing can of its own force be carried upwards or move upwards; lest the bodies of flames give you the lie herein. For upwards indeed the smiling crops and trees are brought to birth, and take their increase, upwards too they grow, albeit all things of weight, as far as in them lies, are borne downwards. Nor when fires leap up to the roofs of houses, and with swift flame lick up beams and rafters, must we think that they do this of their own will, shot up without a driving force.

Even as when blood shot out from our body spirits out leaping up on high, and scatters gore. Do you not see too with what force the moisture of water spews up beams and rafters? For the more we have pushed them straight down deep in the water, and with might and main have pressed them, striving with pain many together, the more eagerly does it spew them up and send them back, so that they rise more than half out of the water and leap up. And yet we do not doubt, I trow, but that all these things, as far as in them lies, are borne downwards through the empty void. Just so, therefore, flames too must be able when squeezed out to press on upwards through the breezes of air, albeit their weights are fighting, as far as in them lies, to drag

them downwards. And again, the nightly torches of the sky which fly on high, do you not see that they trail long tracts of flames behind towards whatever side nature has given them to travel? do you not descry stars and constellations falling to earth? The sun too from the height of heaven scatters its heat on every side, and sows the fields with his light; 'tis towards the earth then that the sun's heat also tends. And you descry, too, thunderbolts flying crosswise through the rain; now from this side, now from that the fires burst from the clouds and rush together; the force of flame everywhere falls towards the earth.

[216] Herein I would fain that you should learn this too, that when first-bodies are being carried downwards straight through the void by their own weight, at times quite undetermined and at undetermined spots they push a little from their path: yet only just so much as you could call a change of trend. But if they were not used to swerve, all things would fall downwards through the deep void like drops of rain, nor could collision come to be, nor a blow brought to pass for the first-beginnings: so nature would never have brought aught to being.

[225] But if perchance any one believes that heavier bodies, because they are carried more quickly straight through the void, can fall from above on the lighter, and so bring about the blows which can give creative motions, he wanders far away from true reason.

For all things that fall through the water and thin air, these things must needs quicken their fall in proportion to their weights, just because the body of water and the thin nature of air cannot check each thing equally, but give place more quickly when overcome by heavier bodies. But, on the other hand, the empty void cannot on any side, at any time, support anything, but rather, as its own nature desires, it continues to give place; wherefore all things must needs be borne on through the calm void, moving at equal rate with unequal weights. The heavier will not then ever be able to fall on the lighter from above, nor of themselves bring about the blows, which make diverse the movements, by which nature carries things on. Wherefore, again and again, it must needs be that the first-bodies swerve a little; yet not more than the very least, lest we seem to be imagining a sideways movement, and the truth refute it. For this we see plain and evident, that bodies, as far as in them lies, cannot travel sideways, since they fall headlong from above, as far as you can descry. But that nothing at all swerves from the straight direction of its path, what sense is there which can descry?

[251] Once again, if every motion is always linked on, and the new always arises from the old in order determined, nor by swerving do the first-beginnings make a certain start of movement to break through the decrees of fate, so that cause may not follow cause from infinite time; whence comes this free will for living things all over the earth, whence, I ask, is it wrested from fate, this will whereby we move forward, where pleasure leads each one of us, and swerve likewise in our motions neither at determined times nor in a determined direction of place, but just where our mind has carried us? For without doubt it is his own will which gives to each one a start for this movement, and from the will the motions pass flooding through the limbs.

[263] Do you not see too how, when the barriers are flung open, yet for an instant of time the eager might of the horses cannot burst out so suddenly as their mind itself desires? For the whole store of matter throughout the whole body must be roused to movement, that then aroused through every limb it may strain and follow the eager longing of the mind; so that you see a start of movement is brought to pass from the heart, and comes forth first of all from the will of the mind, and then afterwards is spread through all the body and limbs.

[272] Nor is it the same as when we move forward impelled by a blow from the strong might and strong constraint of another. For then it is clear to see that all the matter of the body moves and is hurried on against our will, until the will has reined it back throughout the limbs. Do you not then now see that, albeit a force outside pushes many men and constrains them often to go forward against their will and to be hurried away headlong, yet there is something in our breast, which can fight against it and withstand it? And at its bidding too the store of matter is constrained now and then to turn throughout the limbs and members, and, when pushed forward, is reined back and comes to rest again.

[284] Wherefore in the seeds too you must needs allow likewise that there is another cause of motion besides blows and weights, whence comes this power born in us, since we see that nothing can come to

pass from nothing. For weight prevents all things coming to pass by blows, as by some force without. But that the very mind feels not some necessity within in doing all things, and is not constrained like a conquered thing to bear and suffer, this is brought about by the tiny swerve of the first-beginnings in no determined direction of place and at no determined time.

[294] Nor was the store of matter ever more closely packed nor again set at larger distances apart. For neither does anything come to increase it nor pass away from it. Wherefore the bodies of the first-beginnings in the ages past moved with the same motion as now, and hereafter will be borne on for ever in the same way; such things as have been wont to come to being will be brought to birth under the same law, will exist and grow and be strong and lusty, inasmuch as is granted to each by the ordinances of nature. Nor can any force change the sum of things; for neither is there anything outside, into which any kind of matter may escape from the universe, nor whence new forces can arise and burst into the universe and change the whole nature of things and alter its motions.

[308] Herein we need not wonder why it is that, when all the first-beginnings of things are in motion, yet the whole seems to stand wholly at rest, except when anything starts moving with its entire body. For all the nature of the first-bodies lies far away from our senses, below their purview; wherefore, since you cannot reach to look upon them, they must needs steal away their motions from you too; above all, since such things as we can look upon, yet often hide their motions, when withdrawn from us on some distant spot.

For often the fleecy flocks cropping the glad pasture on a hill creep on whither each is called and tempted by the grass bejewelled with fresh dew, and the lambs fed full gambol and butt playfully; yet all this seems blurred to us from afar, and to lie like a white mass on a green hill. Moreover, when mighty legions fill the spaces of the plains with their chargings, awaking a mimic warfare, a sheen rises there to heaven and all the earth around gleams with bronze, and beneath a noise is roused by the mighty mass of men as they march, and the hills smitten by their shouts turn back the cries to the stars of the firmament, and the cavalry wheel round and suddenly shake the middle of the plains with their forceful onset, as they scour across them. And yet there is a certain spot on the high hills, whence all seems to be at rest and to lie like a glimmering mass upon the plains.

[333] Now come, next in order learn of what kind are the beginnings of all things and how far differing in form, and how they are made diverse with many kinds of shapes; not that but a few are endowed with a like form, but that they are not all alike the same one with another. Nor need we wonder; for since there is so great a store of them, that neither have they any limit, as I have shown, nor any sum, it must needs be, we may be sure, that they are not all of equal bulk nor possessed of the same shape.

[342] Moreover, the race of men, and the dumb shoals of scaly creatures which swim the seas, and the glad herds and wild beasts, and the diverse birds, which throng the gladdening watering-places all around the riverbanks and springs and pools, and those which flit about and people the distant forests; of these go and take any single one you will from among its kind, yet you will find that they are different in shape one from another. Nor in any other way could the offspring know its mother, or the mother her offspring; yet we see that they can, and that they are clearly not less known to one another than men.

For often before the sculptured shrines of the gods a calf has fallen, slaughtered hard by the altars smoking with incense, breathing out from its breast the hot tide of blood. But the mother bereft wanders over the green glades and seeks on the ground for the footprints marked by those cloven hoofs, scanning every spot with her eyes, if only she might anywhere catch sight of her lost young, and stopping fills the leafy grove with her lament: again and again she comes back to the stall, stabbed to the heart with yearning for her lost calf, nor can the tender willows and the grass refreshed with dew and the loved streams, gliding level with their banks, bring gladness to her mind and turn aside the sudden pang of care, nor yet can the shapes of other calves among the glad pastures turn her mind to new thoughts or ease it of its care: so eagerly does she seek in vain for something she knows as her own. Moreover, the tender kids with their trembling cries know their horned dams and the butting lambs the flocks of bleating sheep: so surely, as their nature needs, do they run back always each to its own udder of milk.

[371] Lastly, take any kind of corn, you will not find that every grain is like its fellows, each in its several kind, but that there runs through all some difference between their forms. And in like manner we see the race of shells painting the lap of earth, where with its gentle waves the sea beats on the thirsty sand of the winding shore.

[377] Wherefore again and again in the same way it must needs be, since the first-beginnings of things are made by nature and not fashioned by hand to the fixed form of one pattern, that some of them fly about with shapes unlike one another.

[381] It is very easy by reasoning of the mind for us to read the riddle why the fire of lightning is far more piercing than is our fire rising from pine-torches on earth. For you might say that the heavenly fire of lightning is made more subtle and of smaller shapes, and so passes through holes which our fire rising from logs and born of the pine-torch cannot pass. Again light passes through horn-lanterns, but the rain is spewed back. Why? unless it be that those bodies of light are smaller than those of which the quickening liquid of water is made. And we see wine flow through the strainer as swiftly as you will; but, on the other hand, the sluggish olive-oil hangs back, because, we may be sure, it is composed of particles either larger or more hooked and entangled one with the other, and so it comes about that the first-beginnings cannot so quickly be drawn apart, each single one from the rest, and so ooze through the single holes of each thing.

[398] There is this too that the liquids of honey and milk give a pleasant sensation of the tongue, when rolled in the mouth; but on the other hand, the loathsome nature of wormwood and biting centaury set the mouth awry by their noisome taste; so that you may easily know that those things which can touch the senses pleasantly are made of smooth and round bodies, but that on the other hand all things which seem to be bitter and harsh, these are held bound together with particles more hooked, and for this cause are wont to tear a way into our senses, and at their entering in to break through the body.

[408] Lastly, all things good or bad to the senses in their touch fight thus with one another, because they are built up of bodies of different shape; lest by chance you may think that the harsh shuddering sound of the squeaking saw is made of particles as smooth as are the melodies of music which players awake, shaping the notes as their fingers move nimbly over the strings; nor again, must you think that first-beginnings of like shape pierce into men's nostrils, when noisome carcasses are roasting, and when the stage is freshly sprinkled with Cilician saffron, and the altar hard by is breathing the scent of Arabian incense; nor must you suppose that the pleasant colours of things, which can feed our eyes, are made of seeds like those which prick the pupil and constrain us to tears, or look dreadful and loathly in their hideous aspect.

For every shape, which ever charms the senses, has not been brought to being without some smoothness in the first-beginnings; but, on the other hand, every shape which is harsh and offensive has not been formed without some roughness of substance. Other particles there are, moreover, which cannot rightly be thought to be smooth nor altogether hooked with bent points, but rather with tiny angles standing out a little, insomuch that they can tickle the senses rather than hurt them; and of this kind is lees of wine and the taste of endive. Or again, that hot fires and cold frost have particles fanged in different ways to prick the senses of the body, is proved to us by the touch of each.

For touch, yea touch, by the holy powers of the gods, is the sense of the body, either when something from without finds its way in, or when a thing which is born in the body hurts us, or gives pleasure as it passes out, or else when the seeds after collision jostle within the body itself and, roused one by another, disturb our sense: as if by chance you should with your hand strike any part of your own body and so make trial. Therefore the first-beginnings must needs have forms far different, which can produce such diverse feelings.

[444] Or, again, things which seem to us hard and compact, these, it must needs be, are made of particles more hooked one to another, and are held together close-fastened at their roots, as it were by branching particles. First of all in this class diamond stones stand in the forefront of the fight, well used to despise all blows, and stubborn flints and the strength of hard iron, and brass sockets, which scream aloud as they struggle against the bolts. Those things indeed must be made of particles more round and smooth, which are liquid with a fluid body: for indeed a handful of poppy-seed moves easily just as a draught of water; for the

several round particles are not checked one by the other, and when struck, it will roll downhill just like water.

Lastly, all things which you perceive flying asunder, like smoke, clouds and flames, it must needs be that even if they are not made entirely of smooth and round particles, yet they are not hampered by particles closely linked, so that they can prick the body, and pass into rocks, and yet not cling one to another: so that you can easily learn that, whatever we see \[borne asunder by the tearing winds and\] meeting our senses \[as poison\], are of elements not closely linked but pointed.

But because you see that some things which are fluid, are also bitter, as is the brine of the sea, count it no wonder. For because it is fluid, it is of smooth and round particles, and many rugged bodies mingled in it give birth to pain; and yet it must needs be that they are not, hooked and held together: you must know that they are nevertheless spherical, though rugged, so that they can roll on together and hurt the senses. And that you may the more think that rough are mingled with smooth first-beginnings, from which is made the bitter body of the sea-god, there is a way of sundering them and seeing how, apart from the rest, the fresh water, when it trickles many a time through the earth, flows into a trench and loses its harshness; for it leaves behind up above the first-beginnings of its sickly saltness, since the rough particles can more readily stick in the earth.

[478] And since I have taught this much, I will hasten to link on a truth which holds to this and wins belief from it, that the first-beginnings of things are limited in the tale of their varying shapes. If it were not to be so, then once again certain seeds must needs be of unbounded bulk of body. For, within the same tiny frame of any one single seed, the shapes of the body cannot be very diverse. For suppose the first-bodies to be of three least parts, or if you will, make them larger by a few more; in truth when you have tried all those parts of one body in every way, shifting top and bottom, changing right with left, to see what outline of form in that whole body each arrangement gives, beyond that, if by chance you wish to make the shapes different, you must needs add other parts; thence it will follow that in like manner the arrangement will ask for other parts, if by chance you still wish to make the shapes different: and so greater bulk in the body follows on newness of forms. Wherefore it is not possible that you can believe that there are seeds with unbounded difference of forms, lest you constrain certain of them to be of huge vastness, which I have taught above cannot be approved.

[500] At once you would see barbaric robes and gleaming Meliboean purple, dyed with the colour of Thessalian shells, and the golden tribes of peacocks, steeped in smiling beauty, lie neglected and surpassed by the new colours in things; and the smell of myrrh and the taste of honey would be despised, and the swan's song and the many-toned melodies on Phoebus's strings would in like manner be smothered and mute: for something more excellent than all else would ever be arising. Likewise, all things would sink back on the worse side, just as we have told that they would rise towards the better. For, on the other hand, something would be more loathly too than all else to nostrils and ears and eyes, and the taste of the mouth. And since these things are not so, but a fixed limit to things marks the extreme on either side, you must needs confess that the first-matter too has a limited difference in shapes.

[515] Again from fire right on to the icy frost of winter is but a limited way, and in like manner is the way measured back again. For all heat and cold and tepid warmths in the middle lie between the two, filling up the sum in due order. And so they are brought to being differing with limited degrees, since they are marked off at either end by the twin points, beset on this side by flames, on that by stiffening frosts.

[522] And since I have taught this much, I will hasten to link on a truth which holds to it and wins belief from it, that the first-beginnings of things, which are formed with a shape like to one another, are in number infinite. For since the difference of forms is limited, it must needs be that those which are alike are unlimited, or else that the sum of matter is created limited, which I have proved not to be, showing in my verses that the tiny bodies of matter from everlasting always keep up the sum of things, as the team of blows is harnessed on unbroken on every side.

[532] For in that you see that certain animals are more rare, and perceive that nature is less fruitful in them, yet in another quarter and spot, in some distant lands, there may be many in that kind, and so the tale is

made up; even as in the race of four-footed beasts we see that elephants with their snaky hands come first of all, by whose many thousands India is embattled with a bulwark of ivory, so that no way can be found into its inner parts: so great is the multitude of those beasts, whereof we see but a very few samples.

[541] But still, let me grant this too, let there be, if you will, some one thing unique, alone in the body of its birth, to which there is not a fellow in the whole wide world; yet unless there is an unlimited stock of matter, from which it might be conceived and brought to birth, it will not be able to be created, nor, after that, to grow on and be nourished.

Nay, in very truth, if I were to suppose this too, that the bodies creative of one single thing were limited as they tossed about the universe, whence, where, by what force, in what manner will they meet and come together in that vast ocean, that alien turmoil of matter? They have not, I trow, a plan for union, but as, when many a great shipwreck has come to pass, the great sea is wont to cast hither and thither benches, ribs, yards, prow, masts and swimming oars, so that along all the coasts of the lands floating stern-pieces are seen, giving warning to mortals, to resolve to shun the snares of the sea and its might and guile, nor trust it at any time, when the wiles of the windless waves smile treacherous; even so, if you once suppose that the first-beginnings of a certain kind are limited, then scattered through all time they must needs be tossed hither and thither by the tides of matter, setting towards every side, so that never can they be driven together and come together in union, nor stay fixed in union, nor take increase and grow; yet that each of these things openly comes to pass, fact proves for all to see, that things can be brought to birth and being born can grow. It is manifest then that there are, in any kind of things you will, infinite first-beginnings, by which all things are supplied.

[569] And so, neither can the motions of destruction prevail for ever, and bury life in an eternal tomb, nor yet can the motions of creation and increase for ever bring things to birth and preserve them. So war waged from time everlasting is carried on by the balanced strife of the first-beginnings. Now here, now there, the vital forces of things conquer and are conquered alike. With the funeral mingles the wailing which babies raise as they come to look upon the coasts of light; nor has night ever followed on day, or dawn on night, but that it has heard mingled with the baby's sickly wailings, the lament that escorts death and the black funeral.

[581] Herein it is right to have this truth also surely sealed and to keep it stored in your remembering mind, that there is not one of all the things, whose nature is seen before our face, which is built of one kind of first-beginnings, nor anything which is not created of well-mingled seed; and whatever possesses within it more forces and powers, it thus shows that there are in it most kinds of first-beginnings and diverse shapes.

[589] First of all the earth holds within it the first-bodies, by which the springs welling out coldness ever and anon renew the measureless sea, it holds those whence fires are born. For in many places the surface of the earth is kindled and blazes, but the outburst of Aetna rages with fire from its lowest depths. Then further, it holds those whence it can raise for the races of men the smiling crops and glad trees, whence too it can furnish to the tribe of wild beasts, which ranges the mountains, streams, leaves and glad pastures. Wherefore earth alone has been called the Great Mother of the gods, and the mother of the wild beasts, and the parent of our body.

[600] Of her in days of old the learned poets of the Greeks sang that \[borne on from her sacred\] shrine in her car she drove a yoke of lions, teaching thereby that the great earth hangs in the space of air nor can earth rest on earth. To the car they yoked wild beasts, because, however wild the brood, it ought to be conquered and softened by the loving care of parents. The top of her head they wreathed with a battlemented crown, because embattled on glorious heights she sustains towns; and dowered with this emblem even now the image of the divine mother is carried in awesome state through lands far and wide. On her the diverse nations in the ancient rite of worship call as the Mother of Ida, and they give her Phrygian bands to bear her company, because from those lands first they say corn began to be produced throughout the whole world. The mutilated priests they assign to her, because they wish to show forth that those who have offended the godhead of the Mother, and have been found ungrateful to their parents, must be thought to be unworthy to bring offspring alive into the coasts of light.

Taut timbrels thunder in their hands, and hollow cymbals all around, and horns menace with harsh-sounding bray, and the hollow pipe goads their minds in the Phrygian mode, and they carry weapons before them, the symbols of their dangerous frenzy, that they may be able to fill with fear of the goddess's power the thankless minds and unhallowed hearts of the multitude. And so as soon as she rides on through great cities, and silently blesses mortals with unspoken salutation, with bronze and silver they strew all the path of her journey, enriching her with bounteous alms, and snow rose-blossoms over her, overshadowing the Mother and the troops of her escort. Then comes an armed band, whom the Greeks call by name the Curetes of Phrygia, and because now and again they join in mock conflict of arms and leap in rhythmic movement, gladdened at the sight of blood and shaking as they nod the awesome crests upon their heads, they recall the Curetes of Dicte, who are said once in Crete to have drowned the wailing of the infant Jove, while, a band of boys around the baby boy, in hurrying dance all armed, they beat in measured rhythm brass upon brass, that Saturn might not seize and commit him to his jaws, and plant an everlasting wound deep in the Mother's heart. For this cause in arms they escort the Great Mother, or else because they show forth that the goddess preaches that they should resolve with arms and valour to defend their native land and prepare to be a guard and ornament to their parents.

[644] Yet all this, albeit well and nobly set forth and told, is nevertheless far removed from true reasoning. For it must needs be that all the nature of the gods enjoys life everlasting in perfect peace, sundered and separated far away from our world. For free from all grief, free from danger, mighty in its own resources, never lacking ought of us, it is not won by virtuous service nor touched by wrath. Verily, the earth is without feeling throughout all time, and 'tis because it has possession of the first-beginnings of many things, that it brings forth many in many ways into the light of the sun. Herein, if any one is resolved to call the sea Neptune and corn Ceres, and likes rather to misuse the title of Bacchus than to utter the true name of the vine-juice, let us grant that he may proclaim that the world is the Mother of the gods, if only in very truth he forbear to stain his own mind with shameful religious awe.

[661] And so often fleecy flocks and he warrior brood of horses and horned herds, cropping the grass from one field beneath the same canopy of heaven, and slaking their thirst from one stream of water, yet live their life with different aspect, and keep the nature of their parents and imitate their ways each after his own kind. So great is the difference of matter in any kind of grass you will, so great in every stream.

[669] Moreover, any one living creature of them all is made of bones, blood, veins, heat, moisture, flesh and sinews: and they as well are far different, formed as they are with first-beginnings of unlike shape.

[673] Then once again, all things that are set ablaze and burnt up by fire, store in their body, if nothing else, yet at least those particles, from which they may be able to toss fire abroad and shoot out light, and make sparks fly, and scatter cinders far and wide.

[677] Traversing all other things with the like reasoning of your mind, you will find then that they hide in their body the seeds of many things and contain diverse shapes.

[680] Again, you see many things to which both colour and taste are given together with smell. First of all, most of the offerings \[burnt on the altars of the gods\]: these then must needs be made of diverse shapes; for the burning smell pierces, where the hue passes not into the limbs, even so the hue in one way, the taste in another, finds its way into our senses; so that you may know that they differ in the shapes of their first-bodies. So different forms come together into one mass and things are made with mingled seeds.

[688] Nay, more, everywhere in these very verses of mine you see many letters common to many words, and yet you must needs grant that verses and words are formed of different letters, one from another; not that but a few letters run through them in common, or that no two of them are made of letters all the same, but that they are not all alike the same one with another. So in other things likewise since there are first-beginnings common to many things, yet they can exist with sums different from one another: so that the human race and corn and glad trees are rightly said to be created of different particles.

[700] And yet we must not think that all particles can be linked together in all ways, for you would see monsters created everywhere, forms coming to being half man, half beast, and sometimes tall branches growing out from a living body, and many limbs of land-beasts linked with beasts of the sea, and nature too throughout the lands, that are the parents of all things, feeding Chimaeras breathing flame from their noisome mouths. But it is clear to see that none of these things comes to be, since we see that all things are born of fixed seeds and a fixed parent, and can, as they grow, preserve their kind. You may be sure that that must needs come to pass by a fixed law. For its own proper particles separate from every kind of food and pass within into the limbs of everything, and are there linked on and bring about the suitable movements. But, on the other hand, we see nature cast out alien matter on to the ground, and many things with bodies unseen flee from the body, driven by blows, which could not be linked to any part nor within feel the lively motions in harmony with the body and imitate them.

[718] But lest by chance you should think that living things alone are bound by these laws, the same condition sets a limit to all things. For even as all things begotten are in their whole nature unlike one to the other, so it must needs be that each is made of first-beginnings of a different shape; not that but a few are endowed with a like form, but that they are not all alike the same one with another. Moreover, since the seeds are different, there must needs be a difference in their spaces, passages, fastenings, weights, blows, meetings, movements, which not only sunder living things, but part earth and the whole sea, and hold all the sky away from the earth.

[730] Come now, listen to discourse gathered by my joyful labour, lest by chance you should think that these white things, which you perceive shining bright before your eyes are made of white first-beginnings, or that things which are black are born of black seeds; or should believe that things which are steeped in any other colour you will, bear this colour because the bodies of matter are dyed with a colour like it. For the bodies of matter have no colour at all, neither like things nor again unlike them. And if by chance it seems to you that the mind cannot project itself into these bodies, you wander far astray. For since those born blind, who have never descried the light of the sun, yet know bodies by touch, never linked with colour for them from the outset of their life, you may know that for our mind too, bodies painted with no tint may become a clear concept. Again, we ourselves feel that whatever we touch in blind darkness is not dyed with any colour.

[748] And since I convince you that this may be, I will now teach you that [the first-beginnings] are [deprived of all colour]. For any colour, whatever it be, changes into any other; but the first-beginnings ought in no wise to do this. For it must needs be that something abides unchangeable, that all things be not utterly brought to naught. For whenever a thing changes and passes out of its own limits, straightway this is the death of that which was before. Therefore take care not to dye with colour the seeds of things, lest you see all things altogether pass away to naught.

[757] Moreover, if the nature of colour has not been granted to the first-beginnings, and yet they are endowed with diverse forms, out of which they beget and vary colours of every kind, forasmuch as it is of great matter with what others all the seeds are bound up, and in what position, and what movements they mutually give and receive, you can most easily at once give account, why those things which were a little while before of black colour, are able of a sudden to become of marble whiteness; as the sea, when mighty winds have stirred its level waters, is turned into white waves of shining marble. For you might say that when the substance of that which we often see black has been mingled up, and the order of its first-beginnings changed and certain things added and taken away, straightway it comes to pass that it is seen shining and white.

But if the level waters of the ocean were made of sky-blue seeds, they could in no wise grow white. For in whatever way you were to jostle together seeds which are sky-blue, never can they pass into a marble colour. But if the seeds which make up the single unmixed brightness of the sea are dyed with this colour and that, even as often out of different forms and diverse shapes some square thing is made up with a single shape, then it were natural that, as in the square we perceive that there are unlike forms, so we should perceive in the water of the ocean, or in any other single and unmixed brightness, colours far different and diverse one from another. Moreover, the unlike shapes do not a whit thwart and hinder the whole from being square in its outline; but the diverse colours in things do check and prevent the whole thing being of a single

brightness.

[788] Then, further, the reason which leads us on and entices us sometimes to assign colours to the first-beginnings of things, is gone, since white things are not made of white, nor those which are seen black of black, but of diverse colours. And in very truth much more readily will white things be born and rise up out of no colour than out of black, or any other colour you will which fights with it and thwarts it.

Moreover, since colours cannot be without light nor do the first-beginnings of things come out into the light, you may know how they are not clothed with any colour. For what colour can there be in blind darkness? Nay even in the light it changes according as it shines brightly, struck with a straight or slanting beam of light; even as the plumage of doves, which is set about their throats and crowns their necks, is seen in the sunshine; for anon it comes to pass that it is red with bright garnet, sometimes in a certain view it comes to pass that it seems to mingle green emeralds among coral. And the tail of the peacock, when it is bathed in bounteous light, in like manner changes its colours as it moves round; and since these colours are begotten by a certain stroke of light, you may know that we must not think that they could come to be without it.

[810] And since the pupil of the eye receives in itself a certain kind of blow, when it is said to perceive white colour, and another again, when it perceives black and the rest, nor does it matter with what colour things you touch may choose to be endowed, but rather with what sort of shape they are fitted, you may know that the first-beginnings have no need of colours, but by their diverse forms produce diverse kinds of touch.

[817] Moreover, since no fixed nature of colour belongs to fixed shapes, and all conformations of first-beginnings may exist in any hue you will, why on like grounds are not those things which are made out of them steeped with every kind of colour in every kind? For it were natural that often flying crows too should throw off white colour from white wings, and that black swans should be made of black seeds or of any other colour you will, simple or diverse.

[826] Nay again, the more each thing is pulled asunder into tiny parts, the more can you perceive colour little by little fading away and being quenched: as comes to pass when purple is plucked apart into small pieces: when it has been unravelled thread by thread, the dark purple or the scarlet, by far the brightest of colours, is utterly destroyed; so that you can know from this that the tiny shreds dissipate all their colour before they are sundered into the seeds of things.

[834] Lastly, since you do not allow that all bodies send out sound or smell, it comes to pass, therefore, that you do not assign sound and smell to them. Even so, since we cannot with the eyes descry all things, you may know that some things are made bereft of colour, just as some are without any smell and far parted from sound, yet that the keen mind can come to know them no less than it can mark those devoid of other things.

[842] But lest by chance you think that the first-bodies abide bereft only of colour, they are also sundered altogether from warmth and cold, and fiery heat, and are carried along barren of sound and devoid of taste, nor do they give off any scent of their own from their body. Even as when you set about to make the delicious liquid of marjoram or myrrh, or scent of nard, which breathes nectar to the nostrils, first of all it is right to seek, in so far as you may and can find it, the nature of scentless oil, which may send off no breath of perfume to the nostrils, so that it may as little as possible taint and ruin with its own strong smell the scents mingled in its body and boiled along with it. Therefore after all the first-beginnings of things are bound not to bring to the begetting of things their own scent or sound, since they cannot give anything off from themselves, nor in the same way acquire any taste at all, nor cold, nor once more warm and fiery heat . . . and the rest: yet since they are such as to be created mortal, the pliant of soft body, the brittle of crumbling body, the hollow of rare, they must needs all be kept apart from the first-beginnings, if we wish to place immortal foundations beneath things, on which the sum of life may rest; lest you see all things pass away utterly into nothing.

[865] It must needs be that you should admit that all things which we see have sense are yet made of insensible first-beginnings. The clear facts, which are known for all to see, neither refute this nor fight against it, but rather themselves lead us by the hand and constrain us to believe that, as I say, living things are begotten of insensible things. Why we may see worms come forth alive from noisome dung, when the soaked

earth has gotten muddiness from immeasurable rains; moreover, we may see all things in like manner change themselves. Streams, leaves, and glad pastures change themselves into cattle, cattle change their nature into our bodies, and from our bodies the strength of wild beasts often gains increase, and the bodies of birds strong of wing. And so nature changes all foods into living bodies, and out of food brings to birth all the senses of living things, in no far different way than she unfolds dry logs into flames and turns all things into fires. Do you not then see now that it is of great matter in what order all the first-beginnings of things are placed, and with what others mingled they give and receive motions?

[886] Next then, what is it, that strikes on the very mind, which stirs it and constrains to utter diverse thoughts, that you may not believe that the sensible is begotten of the insensible? We may be sure it is that stones and wood and earth mixed together yet cannot give out vital sense. Herein it will be right to remember this, that I do not say that sensations are begotten at once from all and every of the things which give birth to sensible things, but that it is of great matter, first of what size are these bodies, which create the sensible, and with what form they are endowed, then what they are in their motions, arrangements and positions. And none of these things can we perceive in logs and sods; and yet, when they are, as it were, made muddy through the rains, they give birth to little worms, because the bodies of matter stirred by the newcomer from their old arrangements are brought into union in the way in which living things are bound to be begotten.

[902] Next, those who think that the sensible could be created out of sensible bodies which in turn were used to owe their sense to others, \[these make the seeds of their own sense mortal\], when they make them soft. For all sensation is linked to flesh, sinews and veins, which we see are always soft in nature built up of mortal body.

[907] But still let us grant now that these can abide for ever: still doubtless they must either have the sense proper to a part, or be thought to be of a sense like to that of whole living things. But it must needs be that the parts cannot have sense by themselves; for all sensation in the limbs depends on us, nor severed from us can the hand nor any part of the body at all keep sensation by itself. It remains that they are made like whole living things. Thus it must needs be that they feel likewise what we feel, so that they may be able to share with us in every place in the vital sensations. How then will they be able to be called the first-beginnings of things and to shun the paths of death, since they are living things, and living things are one and the same with mortal things?

Yet grant that they can, still by their meeting and union, they will make nothing besides a crowd and mob of living things, even as, as you may know, men, herds of cattle and wild beasts could not beget anything by coming together with one another. But if by chance they lose their own sense, when inside a body, and receive another, what good was it that that should be assigned to them which is taken away? Then, moreover, as we saw before, inasmuch as we perceive the eggs of birds turn into living chickens, and worms swarm out when mud has seized on the earth owing to immoderate rains, we may know that sensations can be begotten out of that which is not sensation.

[931] But if by chance any one shall say that sensation can in any case arise from not-sensation by change of substance or, as it were, by a kind of birth, by which it is thrust out into being, it will be enough to make clear and prove to him that birth cannot come to be, unless when a union has been formed before, nor is anything changed except after union.

[937] First of all, no body at all can have sensation before the nature of the living thing is itself begotten, because, we may be sure, its substance is scattered abroad and is kept in the air, in streams, in earth and things sprung from earth, nor has it come together in appropriate way and combined with one another the vital motions, whereby the all-seeing senses are kindled and see to the safety of each living thing.

[944] Moreover, a heavier blow than its nature can endure, of a sudden falls any living creature, and hastens to stun all the sensations of its body and mind. For the positions of the first-beginnings are broken up and the vital motions are checked deep within, until the substance, after the shock throughout all the limbs, loosens the vital clusters of the soul from the body, scatters it abroad and drives it out through every pore. For what else are we to think that a blow can do when it meets each thing, but shake it to pieces and break it up? It

comes to pass too, that when a blow meets us with less force, the vital motions that remain are often wont to win, yea, to win and to allay the vast disturbances of the blow and summon each part back again into its proper path, and to shake to pieces the movement of death that now, as it were, holds sway in the body, and to kindle the sensations almost lost. For by what other means could living things gather their wits and turn back to life even from the very threshold of death rather than pass on, whither their race is already almost run, and pass away?

[963] Moreover, since there is pain when the bodies of matter, disturbed by some force throughout the living flesh and limbs, tremble each in their abode within, and when they settle back into their place, comforting pleasure comes to pass, you may know that the first-beginnings cannot be assailed by any pain, and can find no pleasure in themselves: inasmuch as they are not made of any bodies of first-beginnings, through whose newness of movement they may be in pain or find any enjoyment of life-giving delight. They are bound then not to be endowed with any sensation.

[973] Again, if, in order that all living things may be able to feel, we must after all assign sensation to their first-beginnings, what of those whereof the race of men has its peculiar increment? You must think that they are shaken with quivering mirth and laugh aloud and sprinkle face and cheeks with the dew of their tears. And they have the wit to say much about the mingling of things, and they go on to ask what are their first-beginnings; inasmuch as, being made like to whole mortal men, they too must needs be built of other particles in their turn, and those again of others, so that you may never dare to make a stop: nay, I will press hard on you, so that, whatsoever you say speaks and laughs and thinks, shall be composed of other particles which do these same things. But if we perceive this to be but raving madness, and a man can laugh, though he has not the increment of laughing atoms, and can think and give reasons with learned lore, though he be not made of seeds thoughtful and eloquent, why should those things, which, as we see, have feeling, any the less be able to exist, mingled of seeds which lack sense in every way?

[991] And so, we are all sprung from heavenly seed; there is the one father of us all, from whom when live-giving earth, the mother, has taken within her the watery drops of moisture, teeming she brings forth the goodly crops and the glad trees and the race of men; she brings forth too all the tribes of the wild beasts, when she furnishes the food, on which all feed their bodies and pass a pleasant life and propagate their offspring; wherefore rightly has she won the name of mother. Even so, what once sprung from earth, sinks back into the earth, and what was sent down from the coasts of the sky, returns again, and the regions of heaven receive it.

Nor does death so destroy things as to put an end to the bodies of matter, but only scatters their union. Then she joins anew one with others, and brings it to pass that all things thus alter their forms, and change their colours, and receive sensations, and in an instant of time yield them up again, so that you may know that it matters with what others the first-beginnings of things are bound up and in what position and what motions they mutually give and receive, and may not think that what we see floating on the surface of things or at times coming to birth, and on a sudden passing away, can abide in the possession of eternal first-bodies. Nay, indeed, even in my verses it is of moment with what others and in what order each letter is placed. For the same letters signify sky, sea, earth, rivers, sun, the same too crops, trees, living creatures; if not all, yet by far the greater part, are alike, but it is by position that things sound different. So in things themselves likewise when meetings, motions, order, position, shapes are changed, things too are bound to be changed.

[1023] Now turn your mind, I pray, to a true reasoning. For a truth wondrously new is struggling to fall upon your ears, and a new face of things to reveal itself. Yet neither is anything so easy, but that at first it is more difficult to believe, and likewise nothing is so great or so marvelous but that little by little all decrease their wonder at it. First of all the bright clear color of the sky, and all it holds within it, the stars that wander here and there, and the moon and the sheen of the sun with its brilliant light; all these, if now they had come to being for the first time for mortals, if all unforeseen they were in a moment placed before their eyes, what story could be told more marvelous than these things, or what that the nations would less dare to believe beforehand? Nothing, I trow: so worthy of wonder would this sight have been. Yet think how no one now, wearied with satiety of seeing, deigns to gaze up at the shining quarters of the sky! Wherefore cease to spew out reason from your mind, struck with terror at mere newness, but rather with eager judgement weigh things,

and, if you see them true, lift your hands and yield, or, if it is false, gird yourself to battle.

For our mind now seeks to reason, since the sum of space is boundless out beyond the walls of this world, what there is far out there, whither the spirit desires always to look forward, and whither the unfettered projection of our mind flies on unchecked.

[1048] First of all, we find that in every direction everywhere, and on either side, above and below, through all the universe, there is no limit, as I have shown, and indeed the truth cries out for itself and the nature of the deep shines clear. Now in no way must we think it likely, since towards every side is infinite empty space, and seeds in unnumbered numbers in the deep universe fly about in many ways driven on in everlasting motion, that this one world and sky was brought to birth, but that beyond it all those bodies of matter do naught; above all, since this world was so made by nature, as the seeds of things themselves of their own accord, jostling from time to time, were driven together in many ways, rashly, idly, and in vain, and at last those united, which, suddenly cast together, might become ever and anon the beginnings of great things, of earth and sea and sky, and the race of living things. Wherefore, again and again, you must needs confess that there are here and there other gatherings of matter, such as is this, which the ether holds in its greedy grip.

[1067] Moreover, when there is much matter ready to hand, when space is there, and no thing, no cause delays, things must, we may be sure, be carried on and completed. As it is, if there is so great a store of seeds as the whole life of living things could not number, and if the same force and nature abides which could throw together the seeds of things, each into their place in like manner as they are thrown together here, it must needs be that you confess that there are other worlds in other regions, and diverse races of men and tribes of wild beasts.

[1077] This there is too that in the universe there is nothing single, nothing born unique and growing unique and alone, but it is always of some tribe, and there are many things in the same race. First of all turn your mind to living creatures; you will find that in this wise is begotten the race of wild beasts that haunts the mountains, in this wise the stock of men, in this wise again the dumb herds of scaly fishes, and all the bodies of flying fowls. Wherefore you must confess in the same way that sky and earth and sun, moon, sea, and all else that exists, are not unique, but rather of number numberless; inasmuch as the deep-fixed boundary-stone of life awaits these as surely, and they are just as much of a body that has birth, as every race which is here on earth, abounding in things after its kind.

[1090] And if you learn this surely, and cling to it, nature is seen, free at once, and quit of her proud rulers, doing all things of her own accord alone, without control of gods. For by the holy hearts of the gods, which in their tranquil peace pass placid years, and a life of calm, who can avail to rule the whole sum of the boundless, who to hold in his guiding hand the mighty reins of the deep, who to turn round all firmaments at once, and warm all fruitful lands with heavenly fires, or to be at all times present in all places, so as to make darkness with clouds, and shake the calm tracts of heaven with thunder, and then shoot thunderbolts, and often make havoc of his own temples, or moving away into deserts rage furiously there, plying the bolt, which often passes by the guilty and does to death the innocent and undeserving?

[1105] And since the time of the world's birth, and the first birthday of sea and earth, and the rising of the sun, many bodies have been added from without, and seeds added all around, which the great universe in its tossing has brought together; that from them sea and lands might be able to increase, and from them too the mansion of the sky might gain new room and lift its high vault far away from the lands, and the air might rise up. For from all places all bodies are separated by blows each to its own kind, and they pass on to their own tribes; moisture goes to moisture, with earthy substance earth grows, fires forge fires, and sky sky, until nature, parent of all, with perfecting hand has brought all things on to the last end of growing; as it comes to pass, when there is now no whit more which is sent within the veins of life, than what flows out and passes away. Here the growth of all things must stop, here nature by her powers curbs increase.

For whatsoever things you see waxing large with joyful increase, and little by little climbing the steps to full-grown years, take more into themselves than they send out from their body, so long as food is passed easily

into all their veins, and so long as the things are not so widely spread that they throw off much, and cause waste greater than that on which their growth feeds. For of a surety you must throw up your hands and grant that many bodies flow away and pass from things; but more must needs be added to them, until they have reached the topmost point of increase. Then little by little age breaks their powers and their full-grown strength, and wastes away on the downhill path.

For verily the huger a thing is and the wider it is, when once its bulk begins to go, the more bodies now does it scatter abroad and throw off from itself, nor is its food easily dispersed into all its veins, nor is there store enough, whence matter may arise and be supplied to equal the vast ebb which it gives out. With reason then they perish, when all things have been made rare by the ebb, and yield before the blows from without, inasmuch as at last food fails the aged life, nor do bodies from without cease to thump upon it, and wear it away, and to overcome it with hostile blows.

[1144] Thus then even the walls of the wide world all round will be stormed and fall into decay and crumbling ruin. For it is food which must needs repair all things and renew them, food must support them, and food sustain all things; yet all is vain, since neither the veins can bear to receive what is enough, nor does nature furnish all that is needful. Yea, even now its life is broken, and the worn-out earth scarce creates tiny animals, though once it created all the tribes, and brought to birth huge bodies of wild beasts.

For it was no golden rope, I trow, which let down the races of living things from heaven above on to the fields, nor did the sea or the waves, that lash the rocks, create them, but the same earth conceived them, which now nourishes them of her substance. Moreover, at first by herself of her own accord she created for mortals the smiling crops and glad vine-plants, herself brought forth sweet fruits and glad pastures; which now scarce wax great, though aided by our toil: we wear out our oxen and the strength of our husbandmen: we exhaust the iron ploughshare, though scarce supplied by the fields so much do they grudge their produce and increase our toil.

And now the aged ploughman shaking his head sighs ever and again that the toil of his hands has perished all for naught, and when he matches the present days against the days of the past, he often praises the fortunes of his father. So too gloomily the planter of the worn-out, wrinkled vine rails at the trend of the times, and wearies heaven, and grumbles to think how the generations of old, rich in piety, easily supported life on a narrow plot, since aforetime the limit of land was far less to each man. Nor does he grasp that all things waste away little by little and pass to the grave foredone by age and the lapse of life.

1.4. Book Three

[01] THOU, who out of deep darkness didst first avail to raise a torch so clear, shedding light upon the true joys of life, 'tis thee I follow, bright star of the Greek race, and in thy deepset prints firmly now I plant my footsteps, not in eager emulation, but rather because for love I long to copy thee; for how could a swallow rival swans, or what might kids with trembling limbs accomplish in a race to compare with the stout strength of a horse? Thou art our father, thou discoverer of truth, thou dost vouchsafe to us a father's precepts, and from thy pages, our hero, even as bees in flowery glades sip every plant, we in like manner browse on all thy sayings of gold, yea, of gold, and always most worthy of life for evermore.

For as soon as thy philosophy, springing from thy godlike soul, begins to proclaim aloud the nature of things, the terrors of the mind fly away, the walls of the world part asunder, I see things moving on through all the void. The majesty of the gods is revealed, and their peaceful abodes, which neither the winds shake nor clouds soak with showers, nor does the snow congealed with biting frost besmirch them with its white fall, but an ever cloudless sky vaults them over, and smiles with light bounteously spread abroad. Moreover, nature supplies all they need, nor does anything gnaw at their peace of mind at any time. But on the other hand, the quarters of Acheron are nowhere to be seen, nor yet is earth a barrier to prevent all things being descried, which are carried on underneath through the void below our feet. At these things, as it were, some godlike pleasure and a thrill of awe seizes on me, to think that thus by thy power nature is made so clear and manifest, laid bare to sight on every side.

[31] And since I have shown of what kind are the beginnings of all things, with what diverse shapes they differ, and how of their own accord they fly on, impelled by everlasting motion, and in what manner each several thing can be created out of them; next after this it seems that the nature of the mind and the soul must now be displayed in my verses, and the old fear of Acheron driven headlong away, which utterly confounds the life of men from the very root, clouding all things with the blackness of death, and suffering no pleasure to be pure and unalloyed.

For, although men often declare that disease and a life of disgrace are more to be feared than the lower realm of death, and that they know that the soul's nature is of blood, or else of wind, if by chance their whim so wills it, and that so they have no need at all of our philosophy, you may be sure by this that all is idly vaunted to win praise, and not because the truth is itself accepted. These same men, exiled from their country and banished far from the sight of men, stained with some foul crime, beset with every kind of care, live on all the same, and, spite of all, to whatever place they come in their misery, they make sacrifice to the dead, and slaughter black cattle and despatch offerings to the gods of the dead, and in their bitter plight far more keenly turn their hearts to religion. Wherefore it is more fitting to watch a man in doubt and danger, and to learn of what manner he is in adversity; for then at last a real cry is wrung from the bottom of his heart: the mask is torn off, and the truth remains behind.

[59] Moreover, avarice and the blind craving for honours, which constrain wretched men to overleap the boundaries of right, and sometimes as comrades or accomplices in crime to struggle night and day with surpassing toil to rise up to the height of power—these sores in life are fostered in no small degree by the fear of death. For most often scorned disgrace and biting poverty are seen to be far removed from pleasant settled life, and are, as it were, a present dallying before the gates of death; and while men, spurred by a false fear, desire to flee far from them, and to drive them far away, they amass substance by civil bloodshed and greedily multiply their riches, heaping slaughter on slaughter. Hardening their heart they revel in a brother's bitter death, and hate and fear their kinsmen's board.

[74] In like manner, often through the same fear, they waste with envy that he is powerful, he is regarded, who walks clothed with bright renown; while they complain that they themselves are wrapped in darkness and the mire. Some of them come to ruin to win statues and a name; and often through fear of death so deeply does the hatred of life and the sight of the light possess men, that with sorrowing heart they compass their own death, forgetting that it is this fear which is the source of their woes, which assails their honour, which bursts the bonds of friendship, and overturns affection from its lofty throne. For often ere now men have betrayed country and beloved parents, seeking to shun the realms of Acheron.

For even as children tremble and fear everything in blinding darkness, so we sometimes dread in the light things that are no whit more to be feared than what children shudder at in the dark, and imagine will come to pass. This terror then, this darkness of the mind, must needs be scattered, not by the rays of the sun and the gleaming shafts of day, but by the outer view and the inner law of nature.

[94] First I say that the mind, which we often call the understanding, in which is placed the reasoning and guiding power of life, is a part of a man no whit the less than hand and foot and eyes are created parts of the whole living being.

[98] \[Yet many wise men have thought\] that the sensation of the mind is not placed in any part determined, but is a certain vital habit of the body, which the Greeks call a harmony, in that it makes us live with sensation, although in no part does an understanding exist; as when often good health is said to belong to the body, and yet it is not itself any part of a healthy man. In this wise they do not set the sensation of the mind in any part determined; and in this they seem to me to wander very far astray. Thus often the body, which is clear to see, is sick, when, all the same we feel pleasure in some other hidden part; and contrariwise it happens that the reverse often comes to be in turn, when one wretched in mind feels pleasure in all his body; in no other wise than if, when a sick man's foot is painful, all the while, may be, his head is in no pain. Moreover, when the limbs are given up to soft sleep, and the heavy body lies slack and senseless, yet there is something else in us, which at that very time is stirred in many ways, and admits within itself all the motions of joy and baseless cares of heart.

[117] Now that you may be able to learn that the soul too is in the limbs, and that it is not by a harmony that the body is wont to feel, first of all it comes to pass that when a great part of the body is removed yet often the life lingers on in our limbs; and then again, when a few bodies of heat are scattered abroad and some air has been driven out through the mouth, that same life of a sudden abandons the veins and leaves the bones; so that you may be able to know from this that not all kinds of bodies have an equal part to play, nor do all equally support existence, but that rather those, which are the seeds of wind and burning heat, are the cause that life lingers in the limbs. There is then heat and a life-giving wind in the very body, which abandons our dying frame.

[130] Wherefore, since the nature of mind and soul has been revealed as a part of man, give up the name of harmony, which was handed down to musicians from high Helicon: or else they themselves have dragged it forth from some other source, and brought it over to this thing, which then was without a name of its own. Whatever it is, let them keep it: do you listen to the rest of my discourse.

[136] Now I say that mind and soul are held in union one with the other, and form of themselves a single nature, but that the head, as it were, and lord in the whole body is the reason, which we call mind or understanding, and it is firmly seated in the middle region of the breast. For here it is that fear and terror throb, around these parts are soothing joys; here then is the understanding and the mind. The rest of the soul, spread abroad throughout the body, obeys and is moved at the will and inclination of the understanding. The mind alone by itself has understanding for itself and rejoices for itself, when no single thing stirs either soul or body.

And just as, when head or eye hurts within us at the attack of pain, we are not tortured at the same time in all our body; so the mind sometimes feels pain by itself or waxes strong with joy, when all the rest of the soul through the limbs and frame is not roused by any fresh feeling. Nevertheless, when the understanding is stirred by some stronger fear, we see that the whole soul feels with it throughout the limbs, and then sweat and pallor break out over all the body, and the tongue is crippled and the voice is choked, the eyes grow misty, the ears ring, the limbs give way beneath us, and indeed we often see men fall down through the terror in their mind; so that any one may easily learn from this that the soul is linked in union with the mind; for when it is smitten by the force of the mind, straightway it strikes the body and pushes it on.

[161] This same reasoning shows that the nature of mind and soul is bodily. For when it is seen to push on the limbs, to pluck the body from sleep, to change the countenance, and to guide and turn the whole man—none of which things we see can come to pass without touch, nor touch in its turn without body—must we not allow that mind and soul are formed of bodily nature? Moreover, you see that our mind suffers along with the body, and shares its feelings together in the body. If the shuddering shock of a weapon, driven within and laying bare bones and sinews, does not reach the life, yet faintness follows, and a pleasant swooning to the ground, and a turmoil of mind which comes to pass on the ground, and from time to time, as it were, a hesitating will to rise. Therefore it must needs be that the nature of the mind is bodily, since it is distressed by the blow of bodily weapons.

[177] Now of what kind of body this mind is, and of what parts it is formed, I will go on to give account to you in my discourse. First of all I say that it is very fine in texture, and is made and formed of very tiny particles. That this is so, if you give attention, you may be able to learn from this. Nothing is seen to come to pass so swiftly as what the mind pictures to itself coming to pass and starts to do itself. Therefore the mind bestirs itself more quickly than any of the things whose nature is manifest for all to see. But because it is so very nimble, it is bound to be formed of exceeding round and exceeding tiny seeds, so that its particles may be able to move when smitten by a little impulse. For so water moves and oscillates at the slightest impulse, seeing it is formed of little particles, quick to roll.

But, on the other hand, the nature of honey is more stable, its fluid more sluggish, and its movement more hesitating; for the whole mass of its matter clings more together, because, we may be sure, it is not formed of bodies so smooth, nor so fine and round. For a light trembling breath can constrain a high heap of poppy-seed to scatter from top to bottom before your eyes: but, on the other hand, a pile of stones or corn-ears it can by no means separate. Therefore, in proportion as bodies are tinier and smoother, so they are gifted with

nimbleness. But, on the other hand, all things that are found to be of greater weight or more spiky, the more firm set they are. Now, therefore, since the nature of the mind has been found nimble beyond the rest, it must needs be formed of bodies exceeding small and smooth and round. And this truth, when known to you, will in many things, good friend, prove useful, and will be reckoned of service.

[208] This fact, too, declares the nature of the mind, of how thin a texture it is formed, and in how small a place it might be contained, could it be gathered in a mass; that as soon as the unruffled peace of death has laid hold on a man, and the nature of mind and soul has passed away, you could discern nothing there, that sight or weight can test, stolen from the entire body; death preserves all save the feeling of life, and some warm heat. And so it must needs be that the whole soul is made of very tiny seeds, and is linked on throughout veins, flesh, and sinews; inasmuch as, when it is all already gone from the whole body, yet the outer contour of the limbs is preserved unbroken, nor is a jot of weight wanting.

Even so it is, when the flavour of wine has passed away or when the sweet breath of a perfume is scattered to the air, or when its savour is gone from some body; still the thing itself seems not a whit smaller to the eyes on that account, nor does anything seem withdrawn from its weight, because, we may be sure, many tiny seeds go to make flavours and scent in the whole body of things. Wherefore once and again you may know that the nature of the understanding and the soul is formed of exceeding tiny seeds, since when it flees away it carries with it no jot of weight.

[231] Nevertheless we must not think that this nature is simple. For it is a certain thin breath that deserts the dying, mingled with heat, and heat moreover draws air with it; nor indeed is there any heat, that has not air too mixed with it. For because its nature is rare, it must needs be that many first-beginnings of air move about in it. Already then we have found the nature of the soul to be triple; and yet all these things are not enough to create sensation, since the mind does not admit that any of these can create the motions that bring sensation [or the thoughts of the mind].

It must needs be then that some fourth nature too be added to these. But it is altogether without name; than it there exists nothing more nimble, nothing more fine, nor made of smaller or smoother particles. It first sends abroad the motions that bring sensation among the limbs: for it is first stirred, being made up of small shapes; then heat receives the motions and the hidden power of wind, and then air; then all things are set moving, the blood receives the shock and all the flesh feels the thrill; last of all it passes to the bones and marrow, be it pleasure or the heat of opposite kind. Yet not for naught can pain pierce thus far within, nor any biting ill pass through, but that all things are so disordered that there is no more place for life, and the parts of the soul scatter abroad through all the pores of the body. But for the most part a limit is set to these motions, as it were, on the surface of the body: and by this means we avail to keep our life.

[258] Now, as I long to give account in what way these parts are mingled one with another, and in what manner bound together so that they can act, against my will the poverty of my country's tongue holds me back; yet, despite that, I will touch the theme, as best I can in brief.

[262] For the first-beginnings course to and fro among themselves with the motions of first-beginnings, so that no single one can be put apart, nor can its powers be set in play divided from others by empty space, but they are, as it were, the many forces of a single body. Even as in the flesh of any living creature anywhere there is smell and a certain heat and savour, and yet of all these is made up the bulk of a single body. Thus heat and air and the hidden power of wind mingled create one nature together with that nimble force, which sends among them from itself the beginning of motion, whence the motion that brings sensation first arises throughout the flesh. For right deep within this nature lies hid far below, nor is there anything further beneath than this in our bodies, and it is moreover the very soul of the whole soul.

Even as in our limbs and our whole body the force of the mind and the power of the soul is secretly immingled, because it is formed of small and rare bodies. So, you see, this force without a name, made of tiny bodies, lies concealed, and is moreover, as it were, the very soul of the whole soul and holds sway in the whole body. In like manner it must needs be that wind and air and heat act mingled together throughout the limbs, and one is more above or below the rest, yet so that one single thing is seen to be composed of all;

lest heat and wind apart, and apart from them the power of air, should put an end to sensation, and by their separation break it up.

[288] Moreover the mind possesses that heat, which it dons when it boils with rage, and the fire flashes more keenly from the eyes. Much cold breath too it has, which goes along with fear, and starts a shuddering in the limbs and stirs the whole frame. And it has too that condition of air lulled to rest, which comes to pass when the breast is calm and the face unruffled. But those creatures have more of heat, whose fiery heart and passionate mind easily boils up in anger. Foremost in this class is the fierce force of lions, who often as they groan break their hearts with roaring, and cannot contain in their breast the billows of their wrath. But the cold heart of deer is more full of wind, and more quickly it rouses the chilly breath in its flesh, which makes a shuddering motion start in the limbs. But the nature of oxen draws its life rather from calm air, nor ever is the smoking torch of anger set to it to rouse it overmuch, drenching it with the shadow of murky mist, nor is it pierced and frozen by the chill shafts of fear: it has its place midway between the two, the deer and the raging lions.

[307] So is it with the race of men. However much training gives some of them an equal culture, yet it leaves those first traces of the nature of the mind of each. Nor must we think that such maladies can be plucked out by the roots, but that one man will more swiftly fall into bitter anger, another be a little sooner assailed by fear, while a third will take some things more gently than is right. And in many other things it must needs be that the diverse natures of men differ, and the habits that follow thereon; but I cannot now set forth the secret causes of these, nor discover names for all the shapes of the first atoms, whence arises this variety in things. One thing herein I see that I can affirm, that so small are the traces of these natures left, which reason could not dispel for us, that nothing hinders us from living a life worthy of the gods.

[323] This nature then of the soul is protected by the whole body, and is itself the guardian of the body, and the cause of its life; for the two cling together by common roots, and it is seen that they cannot be torn asunder without destruction. Even as it is not easy to tear out the scent from lumps of frankincense, but that its nature too passes away. So it is not easy to draw out the nature of mind and soul from the whole body, but that all alike is dissolved. With first-beginnings so closely interlaced from their very birth are they begotten, endowed with a life shared in common, nor, as is clear to see, can the power of body or mind feel apart, either for itself without the force of the other, but by the common motions of the two on this side and on that is sensation kindled and fanned throughout our flesh.

[337] Moreover, the body is never begotten by itself, nor grows alone, nor is seen to last on after death. For never, as the moisture of water often gives off the heat, which has been lent to it, and is not for that reason torn asunder itself, but remains unharmed, never, I say, in this way can the abandoned frame bear the separation of the soul, but it utterly perishes torn asunder and rots away. So from the beginning of existence body and soul, in mutual union, learn the motions that give life, yea, even when hidden in the mother's limbs and womb, so that separation cannot come to pass without hurt and ruin; so that you can see, since the cause of their life is linked together, that their natures too must be linked in one.

[350] For the rest, if any one is for proving that the body does not feel, and believes that it is the soul mingled with the whole body that takes up this motion, which we call sensation, he is fighting even against plain and true facts. For who will ever tell us what the feeling of the body is, if it be not what the clear fact itself has shown and taught us? 'But when the soul has passed away the body is utterly deprived of sensation.' Yes, for it loses that which was not its own in life, and many other things besides it loses, when it is driven out of life.

[359] To say, moreover, that the eyes can see nothing, but that the mind looks out through them as when doors are opened, is hard, seeing that the feeling in the eyes leads us the other way; for that feeling drags us on and forces us to the very pupils; yea, for often we cannot see bright things, because our sight is thwarted by the light. But that does not happen with doors; for the doors, through which we see, do not suffer any pain when they are opened. Moreover, if our eyes are as doors, then the mind, it is clear, ought to discern things better if the eyes were taken out and removed, door-posts and all.

[370] Herein you could by no means accept the teaching, which the judgement of the holy man, Democritus, sets before us, that the first-beginnings of soul and body alternate, set each next each, first one and then the other, and so weave the web of our limbs. For, as the particles of soul are far smaller than those of which our body and flesh are composed, so too they are less in number, and only here and there are scattered through our frame; so that you may warrant this: that the first-beginnings of soul preserve distances apart as great as are the smallest bodies which, when cast upon us, can first start the motions of sensation in the body.

For sometimes we do not feel the clinging of dust on the body, nor know that chalk has been shaken on us and settled on our limbs, nor do we feel a mist at night, nor the slender threads of the spider that strike against us, when we are caught in its meshes as we move, nor know that his twisted web has fallen on our head, or the feathers of birds or the flying down from plants, which from its exceeding lightness, for the most part falls not lightly; nor do we feel the passage of every kind of crawling creature nor each single footstep, which gnats and other insects plant upon our body. Indeed, so many things must first be stirred in us, before the seeds of soul mingled with our bodies throughout our frame feel that the first-beginnings have been shaken, and before they can by jostling in these spaces set between, rush together, unite and leap back in turn.

[396] Now the mind is more the keeper of the fastnesses of life, more the monarch of life than the power of the soul. For without the mind and understanding no part of the soul can hold out in the frame for a tiny moment of time, but follows in its train without demur, and scatters into air, and deserts the chill frame in the frost of death. Yet one, whose mind and understanding have abode firm, abides in life. However much the trunk is mangled with the limbs hewn all around, though the soul be rent from him all around and wrested from his limbs, he lives and draws in the breath of heaven to give him life.

Robbed, if not of all, yet of a great part of his soul, still he lingers on and clings to life. Even as, when the eye is mangled all around, if the pupil has abode unharmed, then the living power of sight stands firm, if only you do not destroy the whole ball of the eye, and cut all round the pupil, and leave it by itself: for that will not be done without the destruction of the eyes too. But if that tiny part in the middle of the eye is eaten away, at once light is gone, and darkness follows on, however much the bright ball is in other places unharmed. In such a compact are soul and mind ever bound together.

[417] Come now, that you may be able to learn that the minds and the light souls of living things have birth and death, I will hasten to set forth verses long sought out and found with glad effort, worthy to guide your life. Be it yours to link both of these in a single name, and when, to choose a case, I continue to speak of the soul, proving that it is mortal, suppose that I speak of mind as well, inasmuch as they are at one each with the other and compose a single thing.

[425] First of all, since I have shown that it is finely made of tiny bodies and of first-beginnings far smaller than the liquid moisture of water or cloud or smoke—for it far surpasses them in speed of motion, and is more prone to move when smitten by some slender cause; for indeed it is moved by images of smoke and cloud: even as when slumbering in sleep we see altars breathing steam on high, and sending up their smoke; for beyond all doubt these are idols that are borne to us:—now therefore, since, when vessels are shattered, you behold the water flowing away on every side, and the liquid parting this way and that, and since cloud and smoke part asunder into air, you must believe that the soul too is scattered and passes away far more swiftly, and is dissolved more quickly into its first-bodies, when once it is withdrawn from a man's limbs, and has departed. For indeed, since the body, which was, as it were, the vessel of the soul, cannot hold it together, when by some chance it is shattered and made rare, since the blood is withdrawn from the veins, how could you believe that the soul could be held together by any air, which is more rare than our body [and can contain it less]?

[445] Moreover, we feel that the understanding is begotten along with the body, and grows together with it, and along with it comes to old age. For as children totter with feeble and tender body, so a weak judgment of mind goes with it. Then when their years are ripe and their strength hardened, greater is their sense and increased their force of mind. Afterward, when now the body is shattered by the stern strength of time, and the frame has sunk with its force dulled, then the reason is maimed, the tongue raves, the mind stumbles, all

things give way and fail at once. And so it is natural that all the nature of the mind should also be dissolved, even as is smoke, into the high breezes of the air; inasmuch as we see that it is born with the body, grows with it, and, as I have shown, at the same time becomes weary and worn with age.

[459] Then follows this that we see that, just as the body itself suffers wasting diseases and poignant pain, so the mind too has its biting cares and grief and fear; wherefore it is natural that it should also share in death. Nay more, during the diseases of the body the mind often wanders astray; for it loses its reason and speaks raving words, and sometimes in a heavy lethargy is carried off into a deep unending sleep, when eyes and head fall nodding, in which it hears not voices, nor can know the faces of those who stand round, summoning it back to life, bedewing face and cheeks with their tears. Therefore you must needs admit that the mind too is dissolved, inasmuch as the contagion of disease pierces into it. For both pain and disease are alike fashioners of death, as we have been taught ere now by many a man's decease.

[476] Again, when the stinging strength of wine has entered into a man, and its heat has spread abroad throughout his veins, why is it that there follows a heaviness in the limbs, his legs are entangled as he staggers, his tongue is sluggish, and his mind heavy, his eyes swim, shouting, sobbing, quarrelling grows apace, and then all the other signs of this sort that go along with them; why does this come to pass, except that the mastering might of the wine is wont to confound the soul even within the body? But whenever things can be so confounded and entangled, they testify that, if a cause a whit stronger shall have made its way within, they must needs perish, robbed of any further life.

[487] Nay more, some man, often before our very eyes, seized suddenly by violent disease, falls, as though by a lightning-stroke, and foams at the mouth; he groans and shivers throughout his frame, he loses his wits, his muscles grow taut, he writhes, he breathes in gasps, and tossing to and fro wearies his limbs. Because, you may be sure, his soul rent asunder by the violence of disease throughout his frame, is confounded, and gathers foam, as on the salt sea the waters boil beneath the stern strength of the winds. Further, the groaning is wrung from him, because his limbs are racked with pain, and more than all because the particles of voice are driven out, and are carried crowding forth from his mouth, along the way they are wont, where is their paved path.

Loss of wits comes to pass, because the force of mind and soul is confounded, and, as I have shown, is torn apart and tossed to and fro, rent asunder by that same poison. Thereafter, when by now the cause of malady has ebbed, and the biting humours of the distempered body return to their hiding-places, then, as it were staggering, he first rises, and little by little returns to all his senses, and regains his soul. When mind and soul then even within the body are tossed by such great maladies, and in wretched plight are rent asunder and distressed, why do you believe that without the body in the open air they can continue life amid the warring winds?

[510] And since we perceive that the mind is cured, just like the sick body, and we see that it can be changed by medicine, this too forewarns us that the mind has a mortal life. For whosoever attempts and essays to alter the mind, or seeks to change any other nature, must indeed add parts to it or transfer them from their order, or take away some small whit at least from the whole. But what is immortal does not permit its parts to be transposed, nor that any whit should be added or depart from it. For whenever a thing changes and passes out of its own limits, straightway this is the death of that which was before. And so whether the mind is sick, it gives signs of its mortality, as I have proved, or whether it is changed by medicine. So surely is true fact seen to run counter to false reasoning, and to shut off retreat from him who flees, and with double-edged refutation to prove the falsehood.

[526] Again, we often behold a man pass away little by little and limb by limb lose the sensation of life; first of all the toes and nails on his feet grow livid, then the feet and legs die, thereafter through the rest of his frame, step by step, pass the traces of chill death. Since this nature of the soul is severed nor does it come forth all intact at one moment, it must be counted mortal. But if by chance you think that it could of its own power draw itself inwards through the frame, and contract its parts into one place, and so withdraw sensation from all the limbs, yet nevertheless that place, to which so great abundance of soul is gathered together, must needs be seen possessed of greater sensation; but since such place is nowhere found, you may be sure, as

we said before, it is rent in pieces and scattered abroad, and so perishes.

Nay more, if it were our wish to grant what is false, and allow that the soul could be massed together in the body of those, who as they die leave the light of day part by part, still you must needs confess that the soul is mortal, nor does it matter whether it passes away scattered through the air, or is drawn into one out of all its various parts and grows sottish, since sense more and more in every part fails the whole man, and in every part less and less of life remains.

[548] And since the mind is one part of man, which abides rooted in a place determined, just as are ears and eyes and all the other organs of sense which guide the helm of life; and, just as hand and eye or nostrils, sundered apart from us, cannot feel nor be, but in fact are in a short time melted in corruption, so the mind cannot exist by itself without the body and the very man, who seems to be, as it were, the vessel of the mind, or aught else you like to picture more closely bound to it, inasmuch as the body clings to it with binding ties.

[558] Again, the living powers of body and mind prevail by union, one with the other, and so enjoy life; for neither without body can the nature of mind by itself alone produce the motions of life, nor yet bereft of soul can body last on and feel sensation. We must know that just as the eye by itself, if torn out by the roots, cannot discern anything apart from the whole body, so, it is clear, soul and mind by themselves have no power. Doubtless because in close mingling throughout veins and flesh, throughout sinews and bones, their first-beginnings are held close by all the body, nor can they freely leap asunder with great spaces between; and so shut in they make those sense-giving motions, which outside the body cast out into the breezes of air after death they cannot make, because they are not in the same way held together. For indeed air will be body, yea a living thing, if the soul can hold itself together, and confine itself to those motions, which before it made in the sinews and right within the body. Wherefore, again and again, when the whole protection of the body is undone and the breath of life is driven without, you must needs admit that the sensations of the mind and the soul are dissolved, since the cause of life in soul and body is closely linked.

[580] Again, since the body cannot endure the severing of the soul, but that it decays with a foul stench, why do you doubt that the force of the soul has gathered together from deep down within, and has trickled out, scattering abroad like smoke, and that the body has changed and fallen crumbling in such great ruin, because its foundations have been utterly moved from their seat, as the soul trickles forth through the limbs, and through all the winding ways, which are in the body, and all the pores? So that in many ways you may learn that the nature of the soul issued through the frame sundered in parts, and that even within the body it was rent in pieces in itself, before it slipped forth and swam out into the breezes of air.

[592] Nay more, while it moves still within the limits of life, yet often from some cause the soul seems to be shaken and to move, and to wish to be released from the whole body; the face seems to grow flaccid, as at the hour of death, and all the limbs to fall limp on the bloodless trunk. Even so it is, when, as men say, the heart has had a shock, or the heart has failed; when all is alarm, and one and all struggle to clutch at the last link to life. For then the mind is shaken through and through, and all the power of the soul, and both fall in ruin with the body too; so that a cause a whit stronger might bring dissolution. Why do you doubt after all this but that the soul, if driven outside the body, frail as it is, without in the open air, robbed of its shelter, would not only be unable to last on through all time, but could not hold together even for a moment?

[607] For it is clear that no one, as he dies, feels his soul going forth whole from all his body, nor coming up first to the throat and the gullet up above, but rather failing in its place in a quarter determined; just as he knows that the other senses are dissolved each in their own place. But if our mind were immortal, it would not at its death so much lament that it was dissolved, but rather that it went forth and left its slough, as does a snake.

[615] Again, why is the understanding and judgment of the mind never begotten in head or feet or hands, but is fixed for all men in one abode in a quarter determined, except that places determined are assigned to each thing for its birth, and in which each several thing can abide when it is created, that so it may have its manifold parts arranged that never can the order of its limbs be seen reversed? So surely does one thing follow on another, nor is flame wont to be born of flowing streams, nor cold to be conceived in fire.

[624] Moreover, if the nature of the soul is immortal and can feel when sundered from our body, we must, I trow, suppose it endowed with five senses. Nor in any other way can we picture to ourselves the souls wandering in the lower world of Acheron. And so painters and the former generations of writers have brought before us souls thus endowed with senses. Yet neither eyes nor nose nor even hand can exist for the soul apart from body, nor again tongue apart or ears; the souls cannot therefore feel by themselves or even exist.

[634] And since we feel that the sensation of life is present in the whole body, and we see that the whole is a living thing, if some force suddenly hew it in the middle with swift blow, so that it severs each half apart, beyond all doubt the force of the soul too will be cleft in twain, torn asunder and riven together with the body. But what is cleft and separates into any parts, disclaims, assuredly, that its nature is everlasting.

[642] They tell how often scythe-bearing chariots, glowing in the mellay of slaughter, so suddenly lop off limbs, that the part which falls lopped off from the frame is seen to shiver on the ground, while in spite of all the mind and spirit of the man cannot feel the pain, through the suddenness of the stroke, and at the same time, because his mind is swallowed up in the fervour of the fight; with the body that is left him he makes for the fight and the slaughter, and often knows not that his left arm with its shield is gone, carried away by the wheels among the horses and the ravening scythes; and another sees not that his right arm has dropped, while he climbs up and presses onward. Then another struggles to rise when his leg is lost, while at his side on the ground his dying foot twitches its toes. And the head lopped off from the warm living trunk keeps on the ground the look of life and the wide-open eyes, until it has yielded up all the last vestiges of soul.

[657] Nay more, if you should choose to chop into many parts with an axe the body of a snake with quivering tongue, angry tail, and long body, you will then perceive all the hewn parts severally writhing under the fresh blow, and scattering the ground with gore, and the fore part making open-mouthed for its own hinder part, in order that, smitten by the burning pain of the wound, it may quench it with its bite. Shall we say then that there is a whole soul in all those little parts? But by that reasoning it will follow that one living creature had many souls in its body. And so that soul which was one together with the body has been severed; wherefore both body and soul must be thought mortal, since each alike is cleft into many parts.

[670] Moreover, if the nature of the soul is immortal, and it enters into the body at our birth, why can we not remember also the part of our life already gone, why do we not preserve traces of things done before? For if the power of the mind is so much changed that all remembrance of things past is lost to it, that state is not, I trow, a far step from death; wherefore you must needs admit that the soul, which was before, has passed away, and that that which now is, has now been created.

[679] Moreover, if when our body is already formed the living power of the mind is wont to be put in just when we are born, and when we are crossing the threshold into life, it would not then be natural that it should be seen to grow with the body, yea, together with the limbs in the very blood, but 'tis natural that it should live all alone by itself as in a den, yet so that the whole body nevertheless is rich in sensation. Wherefore, again and again, we must not think that souls are without a birth, or released from the law of death. For neither can we think that they could be so closely linked to our bodies if they were grafted in them from without—but that all this is so, plain fact on the other hand declares: for the soul is so interlaced through veins, flesh, sinews, and bones that the teeth, too, have their share in sensation; as toothache shows and the twinge of cold water, and the biting on a sharp stone if it be hid in a piece of bread—nor, when they are so interwoven, can they, it is clear, issue forth entire, and unravel themselves intact from all the sinews and bones and joints.

[698] But if by chance you think that the soul is wont to be grafted in us from without, and then permeate through our limbs, all the more will it perish as it fuses with the body. For that which permeates dissolves, and so passes away. For even as food parcelled out among all the pores of the body, when it is sent about into all the limbs and members, perishes and furnishes a new nature out of itself, so soul and mind, however whole they may pass into the fresh-made body, still are dissolved as they permeate, while through all the pores there are sent abroad into the limbs the particles, whereof this nature of the mind is formed, which now holds sway in our body, born from that which then perished, parcelled out among the limbs. Wherefore it is seen that the nature of the soul is neither without a birthday nor exempt from death.

[713] Moreover, are seeds of soul left or not in the lifeless body? For if they are left and are still there, it will follow that it cannot rightly be held immortal, since it has left the body maimed by the loss of some parts. But if it has been removed and fled from the limbs while still entire, so that it has left no part of itself in the body, how is it that corpses, when the flesh is now putrid, teem with worms, and how does so great a store of living creatures, boneless and bloodless, swarm over the heaving frame?

But if by chance you believe that the souls are grafted in the worms from without, and can pass severally into their bodies, and do not consider why many thousands of souls should gather together, whence one only has departed, yet there is this that seems worth asking and putting to the test, whether after all those souls go hunting for all the seeds of the little worms, and themselves build up a home to live in, or whether they are, as it were, grafted in bodies already quite formed. But there is no ready reason why they should make the bodies themselves, why they should be at such pains. For indeed, when they are without a body, they do not flit about harassed by disease and cold and hunger. For the body is more prone to suffer by these maladies, and 'tis through contact with the body that the mind suffers many ills. But still grant that it be ever so profitable for them to fashion a body wherein to enter; yet there seems to be no way whereby they could. Souls then do not fashion for themselves bodies and frames. Nor yet can it be that they are grafted in bodies already made; for neither will they be able to be closely interwoven, nor will contact be made by a sharing of sensation.

[741] Again, why does fiery passion go along with the grim brood of lions and cunning with foxes; why is the habit of flight handed on to deer from their sires, so that their father's fear spurs their limbs? And indeed all other habits of this sort, why are they always implanted in the limbs and temper from the first moment of life, if it be not because a power of mind determined by its own seed and breed grows along with the body of each animal? But if the soul were immortal and were wont to change its bodies, then living creatures would have characters intermingled; the dog of Hyrcanian seed would often flee the onset of the horned hart, and the hawk would fly fearful through the breezes of air at the coming of the dove; men would be witless, and wise the fierce tribes of wild beasts.

[754] For it is argued on false reasoning, when men say that an immortal soul is altered, when it changes its body: for what is changed, is dissolved, and so passes away. For the parts are transferred and shift from their order; wherefore they must be able to be dissolved too throughout the limbs, so that at last they may all pass away together with the body.

[760] But if they say that the souls of men always pass into human bodies, still I will ask why a soul can become foolish after being wise, why no child has reason, why the mare's foal is not as well trained as the bold strength of a horse. We may be sure they will be driven to say that in a weak body the mind too is weak. But if that indeed comes to pass, you must needs admit that the soul is mortal, since it changes so much throughout the frame, and loses its former life and sense.

[769] Or in what manner will the force of mind be able along with each several body to wax strong and attain the coveted bloom of life, unless it be partner too with the body at its earliest birth? Or why does it desire to issue forth abroad from the aged limbs? does it fear to remain shut up in a decaying body, lest its home, worn out with the long spell of years, fall on it? But an immortal thing knows no dangers.

[776] Again, that the souls should be present at the wedlock of Venus and the birth of wild beasts, seems to be but laughable; that immortal souls should stand waiting for mortal limbs in numbers numberless, and should wrangle one with another in hot haste, which first before the others may find an entrance; unless by chance the souls have a compact sealed, that whichever arrives first on its wings, shall first have entrance, so that they strive not forcibly at all with one another.

[784] Again, a tree cannot exist in the sky, nor clouds in the deep waters, nor can fishes live in the fields, nor blood be present in wood, nor sap in stones. It is determined and ordained where each thing can grow and have its place. So the nature of the mind cannot come to birth alone without body, nor exist far apart from sinews and blood. But if this could be, far sooner might the force of mind itself exist in head or shoulders, or right down in the heels, and be wont to be born in any part you will, but at least remain in the same man or

the same vessel. But since even within our body it is determined and seen to be ordained where soul and mind can dwell apart and grow, all the more must we deny that it could continue or be begotten outside the whole body. Wherefore, when the body has perished, you must needs confess that the soul too has passed away, rent asunder in the whole body.

[800] Nay, indeed, to link the mortal with the everlasting, and to think that they can feel together and act one upon the other, is but foolishness. For what can be pictured more at variance, more estranged within itself and inharmonious, than that what is mortal should be linked in union with the immortal and everlasting to brave raging storms?

[806] Moreover, if ever things abide for everlasting, it must needs be either that, because they are of solid body, they beat back assaults, nor suffer anything to come within them which might unloose the close-locked parts within, such as are the bodies of matter whose nature we have declared before; or that they are able to continue throughout all time, because they are exempt from blows, as is the void, which abides untouched, nor suffers a whit from assault; or else because there is no supply of room all around, into which, as it were, things might part asunder and be broken up—even as the sum of sums is eternal—nor is there any room without into which they may scatter, nor are there bodies which might fall upon them and break them up with stout blow.

[819] But if by chance the soul is rather to be held immortal for this reason, because it is fortified and protected from things fatal to life, or because things harmful to its life come not at all, or because such as come in some way depart defeated before we can feel what harm they do us [clear facts show us that this is not so]. For besides that it falls sick along with the diseases of the body, there comes to it that which often torments it about things that are to be, and makes it ill at ease with fear, and wears it out with care; and when its evil deeds are past and gone, yet sin brings remorse. There is too the peculiar frenzy of the mind and forgetfulness of the past, yes, and it is plunged into the dark waters of lethargy.

[830] Death, then, is naught to us, nor does it concern us a whit, inasmuch as the nature of the mind is but a mortal possession. And even as in the time gone by we felt no ill, when the Poeni came from all sides to the shock of battle, when all the world, shaken by the hurrying turmoil of war, shuddered and reeled beneath the high coasts of heaven, in doubt to which people's sway must fall all human power by land and sea; so, when we shall be no more, when there shall have come the parting of body and soul, by whose union we are made one, you may know that nothing at all will be able to happen to us, who then will be no more, or stir our feeling; no, not if earth shall be mingled with sea, and sea with sky.

[843] And even if the nature of mind and the power of soul has feeling, after it has been rent asunder from our body, yet it is naught to us, who are made one by the mating and marriage of body and soul. Nor, if time should gather together our substance after our decease and bring it back again as it is now placed, if once more the light of life should be vouchsafed to us, yet, even were that done, it would not concern us at all, when once the remembrance of our former selves were snapped in twain. And even now we care not at all for the selves that we once were, not at all are we touched by any torturing pain for them. For when you look back over all the lapse of immeasurable time that now is gone, and think how manifold are the motions of matter, you could easily believe this too, that these same seeds, whereof we now are made, have often been placed in the same order as they are now; and yet we cannot recall that in our mind's memory; for in between lies a break in life, and all the motions have wandered everywhere far astray from sense.

[862] For, if by chance there is to be grief and pain for a man, he must needs himself too exist at that time, that ill may befall him. Since death forestalls this, and prevents the being of him, on whom these misfortunes might crowd, we may know that we have naught to fear in death, and that he who is no more cannot be wretched, and that it were no whit different if he had never at any time been born, when once immortal death hath stolen away mortal life.

[870] And so, when you see a man chafing at his lot, that after death he will either rot away with his body laid in earth, or be destroyed by flames, or the jaws of wild beasts, you may be sure that his words do not ring true, and that deep in his heart lies some secret pang, however much he deny himself that he believes that

he will have any feeling in death. For he does not, I trow, grant what he professes, nor the grounds of his profession, nor does he remove and cast himself root and branch out of life, but all unwitting supposes something of himself to live on. For when in life each man pictures to himself that it will come to pass that birds and wild beasts will mangle his body in death, he pities himself; for neither does he separate himself from the corpse, nor withdraw himself enough from the outcast body, but thinks that it is he, and, as he stands watching, taints it with his own feeling.

Hence he chafes that he was born mortal, and sees not that in real death there will be no second self, to live and mourn to himself his own loss, or to stand there and be pained that he lies mangled or burning. For if it is an evil in death to be mauled by the jaws and teeth of wild beasts, I cannot see how it is not sharp pain to be laid upon hot flames and cremated, or to be placed in honey and stifled, and to grow stiff with cold, lying on the surface on the top of an icy rock, or to be crushed and ground by a weight of earth above.

[894] 'Now no more shall thy glad home welcome thee, nor thy good wife and sweet children run up to snatch the first kisses, and touch thy heart with a silent thrill of joy. No more shalt thou have power to prosper in thy ways, or to be a sure defence to thine own. Pitiful thou art,' men say, 'and pitifully has one malignant day taken from thee all the many prizes of life.' Yet to this they add not: 'nor does there abide with thee any longer any yearning for these things.' But if they saw this clearly in mind, and followed it out in their words, they would free themselves from great anguish and fear of mind.

[904] 'Thou, indeed, even as thou art now fallen asleep in death, shalt so be for all time to come, released from every pain and sorrow. But 'tis we who have wept with tears unquenchable for thee, as thou wert turned to ashes hard by us on the awesome place of burning, and that unending grief no day shall take from our hearts.' But of him who speaks thus we should ask, what there is so exceeding bitter, if it comes at the last to sleep and rest, that any one should waste away in never-ending lamentation.

[912] This too men often do, when they are lying at the board, and hold their cups in their hands, and shade their faces with garlands: they say from the heart, 'Brief is this enjoyment for us puny men: soon it will be past, nor ever thereafter will it be ours to call it back.' As though in death this were to be foremost among their ills, that thirst would burn the poor wretches and parch them with its drought, or that there would abide with them a yearning for any other thing. For never does any man long for himself and life, when mind and body alike rest in slumber. For all we care sleep may then be never-ending, nor does any yearning for ourselves then beset us. And yet at that time those first-beginnings stray not at all far through our frame away from the motions that bring sense, when a man springs up from sleep and gathers himself together. Much less then should we think that death is to us, if there can be less than what we see to be nothing; for at our dying there follows a greater turmoil and scattering abroad of matter, nor does any one wake and rise again, whom the chill breach of life has once overtaken.

[931] Again, suppose that the nature of things should of a sudden lift up her voice, and thus in these words herself rebuke some one of us: 'Why is death so great a thing to thee, mortal, that thou dost give way overmuch to sickly lamentation? why groan and weep at death? For if the life that is past and gone has been pleasant to thee, nor have all its blessings, as though heaped in a vessel full of holes, run through and perished unenjoyed, why dost thou not retire like a guest sated with the banquet of life, and with calm mind embrace, thou fool, a rest that knows no care? But if all thou hast reaped hath been wasted and lost, and life is a stumbling-block, why seek to add more, all to be lost again foolishly and pass away unenjoyed; why not rather make an end of life and trouble? For there is naught more, which I can devise or discover to please thee: all things are ever as they were. If thy body is not yet wasted with years, nor thy limbs worn and decayed, yet all things remain as they were, even if thou shouldst live on to overpass all generations, nay rather, if thou shouldst never die.' What answer can we make, but that nature brings a just charge against us, and sets out in her pleading a true plaint?

[952] But if now some older man, smitten in years, should make lament, and pitifully bewail his decease more than is just, would she not rightly raise her voice and chide him in sharp tones? 'Away with tears henceforth, thou rogue, set a bridle on thy laments. Thou hast enjoyed all the prizes of life and now dost waste away. But because thou yearnest ever for what is not with thee, and despisest the gifts at hand, uncompleted and

unenjoyed thy life has slipped from thee, and, ere thou didst think it, death is standing by thy head, before thou hast the heart to depart filled and sated with good things. Yet now give up all these things so ill-fitted for thy years, and with calm mind, come, yield them to thy sons: for so thou must.'

She would be right, I trow, in her plea, right in her charge and chiding. For the old ever gives place thrust out by new things, and one thing must be restored at the expense of others: nor is any one sent down to the pit and to black Tartarus. There must needs be substance that the generations to come may grow; yet all of them too will follow thee, when they have had their fill of life; yea, just as thyself, these generations have passed away before, and will pass away again. So one thing shall never cease to rise up out of another, and life is granted to none for freehold, to all on lease.

Look back again to see how the past ages of everlasting time, before we are born, have been as naught to us. These then nature holds up to us as a mirror of the time that is to come, when we are dead and gone. Is there aught that looks terrible in this, aught that seems gloomy? Is it not a calmer rest than any sleep?

[978] Yea, we may be sure, all those things, of which stories tell us in the depths of Acheron, are in our life. Neither does wretched Tantalus fear the great rock that hangs over him in the air, as the tale tells, numbed with idle terror; but rather 'tis in life that the vain fear of the gods threatens mortals; they fear the fall of the blow which chance may deal to each.

[984] Nor do birds make their way into Tityos, as he lies in Acheron, nor can they verily in all the length of time find food to grope for deep in his huge breast. However vast the mass of his outstretched limbs, though he cover not only nine acres with his sprawling limbs, but the whole circle of earth, yet he will not be able to endure everlasting pain, nor for ever to supply food from his own body. But this is our Tityos, whom as he lies smitten with love the birds mangle, yea, aching anguish devours him, or care cuts him deep through some other passion.

[995] The Sisyphus in our life too is clear to see, he who open-mouthed seeks from the people the rods and cruel axes, and evermore comes back conquered and dispirited. For to seek for a power, which is but in name, and is never truly given, and for that to endure for ever grinding toil, this is to thrust uphill with great effort a stone, which after all rolls back from the topmost peak, and headlong makes for the levels of the plain beneath.

[1003] Then to feed for ever the ungrateful nature of the mind, to fill it full with good things, yet never satisfy it, as the seasons of the year do for us, when they come round again, and bring their fruits and their diverse delights, though we are never filled full with the joys of life, this, I trow, is the story of the maidens in the flower of youth, who pile the water into the vessel full of holes, which yet can in no way be filled full.

[1011] Cerberus and the furies, moreover, and the lack of light, Tartarus, belching forth awful vapours from his jaws, which are not anywhere, nor verily can be. But it is fear of punishment for misdeeds in life—fear notable as the deeds are notable—and the atonement for crime, the dungeon and the terrible hurling down from the rock, scourgings, executioners, the rack, pitch, the metal plate, torches; for although they are not with us, yet the conscious mind, fearing for its misdeeds, sets goads to itself, and sears itself with lashings, nor does it see meanwhile what end there can be to its ills, or what limit at last to punishment, yea, and it fears that these same things may grow worse after death. Here after all on earth the life of fools becomes a hell.

[1024] This too you might say to yourself from time to time: 'Even Ancus the good closed his eyes on the light of day, he who was a thousand times thy better, thou knave. And since him many other kings and rulers of empires have fallen, who held sway over mighty nations. Even he himself, who once paved a way over the great sea, and made a path for his legions to pass across the deep, and taught them on foot to pass over the salt pools, and made naught of the roarings of ocean, prancing upon it with his horses, yet lost the light of day, and breathed out his soul from his dying body. The son of the Scipios, thunderbolt of war, terror of Carthage, gave his bones to earth, even as though he had been the meanest house-slave. Yes, and the inventors of sciences and delightful arts, yes and the comrades of the sisters of Helicon: among whom

Homer, who sat alone, holding his sceptre, has fallen into the same sleep as the rest. Again, after a ripe old age warned Democritus that the mindful motions of his memory were waning, of his own will he met death and offered her up his head. Epicurus himself died, when he had run his course in the light of life, Epicurus, who surpassed the race of men in understanding and quenched the light of all, even as the sun rising in the sky quenches the stars. Wilt thou then hesitate and chafe to meet thy doom? thou, whose life is wellnigh dead while thou still livest and lookest on the light, who dost waste in sleep the greater part of thy years, and snore when wide awake, nor ever cease to see dream-visions, who hast a mind harassed with empty fear, nor canst discover often what is amiss with thee, when like a sot thou art beset, poor wretch, with countless cares on every side, and dost wander drifting on the shifting currents of thy mind.'

[1053] If only men, even as they clearly feel a weight in their mind, which wears them out with its heaviness, could learn too from what causes that comes to be, and whence so great a mass, as it were, of ill lies upon their breast, they would not pass their lives, as now for the most part we see them; knowing not each one of them what he wants, and longing ever for change of place, as though he could thus lay aside the burden. The man who is tired of staying at home, often goes out abroad from his great mansion, and of a sudden returns again, for indeed abroad he feels no better. He races to his country home, furiously driving his ponies, as though he were hurrying to bring help to a burning house; he yawns at once, when he has set foot on the threshold of the villa, or sinks into a heavy sleep and seeks forgetfulness, or even in hot haste makes for town, eager to be back. In this way each man struggles to escape himself: yet, despite his will he clings to the self, which, we may be sure, in fact he cannot shun, and hates himself, because in his sickness he knows not the cause of his malady; but if he saw it clearly, every man would leave all else, and study first to learn the nature of things, since it is his state for all eternity, and not for a single hour, that is in question, the state in which mortals must expect all their being, that is to come after their death.

[1076] Again, what evil craving for life is this which constrains, us with such force to live so restlessly in doubt and danger? Verily, a sure end of life is ordained for mortals, nor can we avoid death, but we must meet it. Moreover, we move ever, we spend our time amid the same things, nor by length of life is any new pleasure hammered out. But so long as we have not what we crave, it seems to surpass all else; afterward, when that is ours, we crave something else, and the same thirst for life besets us ever, open-mouthed. It is uncertain too what fortune time to come may carry to us, or what chance may bring us, or what issue is at hand. Nor in truth by prolonging life do we take away a jot from the time of death, nor can we subtract anything whereby we may be perchance less long dead. Therefore you may live on to close as many generations as you will: yet no whit the less that everlasting death will await you, nor will he for a less long time be no more, who has made an end of life with today's light, than he who perished many months or years ago.

1.5. Book Four

[01] I traverse the distant haunts of the Pierides, never trodden before by the foot of man. 'Tis my joy to approach those untasted springs and drink my fill, 'tis my joy to pluck new flowers and gather a glorious coronal for my head from spots whence before the muses have never wreathed the forehead of any man. First because I teach about great things, and hasten to free the mind from the close bondage of religion, then because on a dark theme I trace verses so full of light, touching all with the muses' charm. For that too is seen to be not without good reason; for even as healers, when they essay to give loathsome wormwood to children, first touch the rim all round the cup with the sweet golden moisture of honey, so that the unwitting age of children may be beguiled as far as the lips, and meanwhile may drink the bitter draught of wormwood, and though charmed may not be harmed, but rather by such means may be restored and come to health; so now, since this philosophy full often seems too bitter to those who have not tasted it, and the multitude shrinks back away from it, I have desired to set forth to you my reasoning in the sweet-tongued song of the muses, and as though to touch it with the pleasant honey of poetry, if perchance I might avail by such means to keep your mind set upon my verses, while you take in the whole nature of things, and are conscious of your profit.

[26] But since I have taught of what manner are the beginnings of all things, and how, differing in their diverse forms, of their own accord they fly on, spurred by everlasting motion; and in what way each several thing can be created from them; and since I have taught what was the nature of the mind, and whereof composed it

grew in due order with the body, and in what way rent asunder it passed back into its first-beginnings: now I will begin to tell you what exceeding nearly concerns this theme, that there are what we call idols of things; which, like films stripped from the outermost body of things, fly forward and backward through the air; and they too when they meet us in waking hours affright our minds, yea, and in sleep too, when we often gaze on wondrous shapes, and the idols of those who have lost the light of day, which in awful wise have often roused us, as we lay languid, from our sleep; lest by chance we should think that souls escape from Acheron, or that shades fly abroad among the living, or that something of us can be left after death, when body alike and the nature of mind have perished and parted asunder into their several first-beginnings. I say then that likenesses of things and their shapes are given off by things from the outermost body of things, which may be called, as it were, films or even rind, because the image bears an appearance and form like to that, whatever it be, from whose body it appears to be shed, ere it wanders abroad. That we may learn from this, however dull be our wits.

[54] First of all, since among things clear to see many things give off bodies, in part scattered loosely abroad, even as wood gives off smoke and fires heat, and in part more closely knit and packed together, as when now and then the grasshoppers lay aside their smooth coats in summer, and when calves at their birth give off a caul from their outermost body, and likewise when the slippery serpent rubs off its vesture on the thorns; for often we see the brambles laden with these wind-blown spoils from snakes. And since these things come to pass, a thin image from things too must needs be given off from the outermost body of things. For why these films should fall and part from things any more than films that are thin, none can breathe a word to prove; above all, since on the surface of things there are many tiny bodies, which could be cast off in the same order wherein they stood, and could preserve the outline of their shape, yea, and be cast the more quickly, inasmuch as they can be less entangled, in that they are few, and placed in the forefront. For verily we see many things cast off and give out bodies in abundance, not only from deep beneath, as we said before, but often too from the surface, such as their own colour. And commonly is this done by awnings, yellow and red and steely-blue, when stretched over great theatres they flap and flutter, spread everywhere on masts and beams. For there they tinge the assembly in the tiers beneath, and all the bravery of the stage and the gay-clad company of the elders, and constrain them to flutter in their colours. And the more closely are the hoardings of the theatre shut in all around, the more does all the scene within laugh, bathed in brightness, as the light of day is straitened. Since then the canvas gives out this hue from its outermost body, each several thing also must needs give out thin likenesses, since in either case they are throwing off from the surface. There are then sure traces of forms, which fly about everywhere, endowed with slender bulk, nor can they be seen apart one by one.

[90] Moreover, all smell, smoke, heat, and other like things stream forth from things, scattering loosely, because while they arise and come forth from deep within, they are torn in their winding course, nor are there straight outlets to their paths, whereby they may hasten to issue all in one mass. But, on the other hand, when the thin film of surface-colour is cast off, there is nothing which can avail to rend it, since it is ready at hand, and placed in the forefront.

[98] Lastly, whenever idols appear to us in mirrors, in water, and in every shining surface, it must needs be, seeing that they are endowed with an appearance like the things, that they are made of the images of things given off. There are then thin shapes of things and likenesses, which, although no one can see them one by one, yet thrown back with constant and ceaseless repulse, give back a picture from the surface of the mirrors, and it is seen that they cannot by any other means be so preserved that shapes so exceeding like each several thing may be given back.

[110] Come now and learn of how thin a nature this image is formed. And to begin with, since the first-beginnings are so far beneath the ken of our senses, and so much smaller than the things which our eyes first begin to be unable to descry, yet now that I may assure you of this too, learn in a few words how fine in texture are the beginnings of all things.

[116] First of all there are living things sometimes so small that a third part of them could by no means be seen. Of what kind must we think any one of their entrails to be? What of the round ball of their heart or eye? what of their members? what of their limbs? how small are they? still more, what of the several first-

beginnings whereof their soul and the nature of their mind must needs be formed? do you not see how fine and how tiny they are?

[123] Moreover, whatever things breathe out a pungent savour from their body, panacea, sickly wormwood, and strongly-smelling abrotanum, and bitter centaury; if by chance \[you press\] any one of these lightly between two \[fingers, the scent will for long cling to your fingers, though never will you see anything at all: so that you may know how fine is the nature of the first-beginnings, whereof the scent is formed . . . \] . . . and not rather learn that many idols of things wander abroad in many ways with no powers, unable to be perceived?

[129] But that you may not by chance think that after all only those idols of things wander abroad, which come off from things, there are those too which are begotten of their own accord, and are formed of themselves in this sky which is called air; which moulded in many ways are borne along on high, and being fluid cease not to change their appearance, and to turn it into the outline of forms of every kind; even as from time to time we see clouds lightly gathering together in the deep sky, and staining the calm face of the firmament, caressing the air with their motion. For often the faces of giants are seen to fly along and to trail a shadow far and wide, and sometimes mighty mountains and rocks torn from the mountains are seen to go on ahead and to pass before the sun; and then a huge beast seems to draw on and lead forward the storm clouds.

[143] Come now, in what swift and easy ways those idols are begotten, and flow unceasingly from things and fall off and part from them, \[I will set forth . . . \]. For ever the outermost surface is streaming away from things, that so they may cast it off. And when this reaches some things, it passes through them, as above all through glass: but when it reaches rough stones or the substance of wood, there at once it is torn, so that it cannot give back any idol. But when things that are formed bright and dense are set athwart its path, such as above all is the mirror, neither of these things comes to pass. For neither can they pass through, as through glass, nor yet be torn; for the smoothness is careful to ensure their safety. Wherefore it comes to pass that the idols stream back from it to us. And however suddenly, at any time you will, you place each several thing against the mirror, the image comes to view; so that you may know that from the outermost body there flow off unceasingly thin webs and thin shapes of things. Therefore many idols are begotten in a short moment, so that rightly is the creation of these things said to be swift. And just as the sun must needs shoot out many rays of light in a short moment, so that the whole world may unceasingly be filled, so too in like manner from things it must needs be that many idols of things are borne off in an instant of time in many ways in all directions on every side; inasmuch as to whatever side we turn the mirror to meet the surface of things, things in the mirror answer back alike in form and colour.

[168] Moreover, even when the weather in the sky has but now been most clear, exceeding suddenly it becomes foully stormy, so that on all sides you might think that all darkness has left Acheron, and filled the great vault of the sky; so terribly, when the noisome night of clouds has gathered together, do the shapes of black fear hang over us on high; yet how small a part of these is an idol, there is no one who could say or give an account of this in words.

[176] Come now, with what swift motion the idols are carried on, and what speed is given them as they swim through the air, so that a short hour is spent on a long course, towards whatever place they each strain on with diverse impulse, I will proclaim in verses of sweet discourse rather than in many; even as the brief song of a swan is better than the clamour of cranes, which spreads abroad among the clouds of the south high in heaven.

[183] First of all very often we may see that light things made of tiny bodies are swift. In this class there is the light of the sun and his heat, because they are made of tiny first-particles, which, as it were, are knocked forward, and do not pause in passing on through the space of air between, smitten by the blow from those that follow. For in hot haste the place of light is taken by light, and as though driven in a team, one flash is goaded by another flash. Wherefore in like manner it must needs be that the idols can course through space unthinkable in an instant of time, first because it is a tiny cause, far away behind which drives and carries them forward, and after that, in that they are borne on with so swift a lightness of bulk; and then because they are given off endowed with texture so rare that they can easily pass into anything you will, and as it were

ooze through the intervening air.

[199] Moreover, when particles of things are given out abroad from deep within, like the sun's light and heat, these are seen to fall in a moment of time and spread themselves over the whole expanse of heaven, and to fly over sea and earth and flood the sky. What then of those things which are ready at once in the forefront? When they are cast off and nothing hinders their discharge, do you not see that they must needs move swifter and further, and course through many times the same expanse of space in the same time in which the rays of the sun crowd the sky?

[209] This, too, more than all seems to show forth truly in what swift motion the idols of things are borne on, that as soon as a bright surface of water is placed beneath the open sky, when the heaven is starry, in a moment the calm beaming stars of the firmament appear in answer in the water. Do you not then see now in how short an instant of time the image falls from the coasts of heaven to the coasts of earth?

...

Wherefore more and more you must needs confess that bodies are sent off such as strike the eyes and awake our vision. And from certain things scents stream off unceasingly; just as cold streams off from rivers, heat from the sun, spray from the waves of the sea, which gnaws away walls all around the shores. Nor do diverse voices cease to fly abroad through the air. Again, often moisture of a salt savour comes into our mouth, when we walk by the sea, and on the other hand, when we watch wormwood being diluted and mixed, a bitter taste touches it. So surely from all things each several thing is carried off in a stream, and is sent abroad to every quarter on all sides, nor is any delay or respite granted in this flux, since we feel unceasingly, and we are suffered always to descry and smell all things, and to hear them sound.

[230] Moreover, since a shape felt by the hands in the darkness is known to be in some way the same as is seen in the light and the clear brightness, it must needs be that touch and sight are stirred by a like cause. If then we handle a square thing, and it stirs our touch in the darkness, what square thing can fall upon our sight in the light, except its image? Wherefore it is clear that the cause of seeing lies in the images, nor without them can anything be seen.

[239] Next those things which I call the idols of things are borne everywhere, and are cast off and meted out to every side. But because we can see them only with our eyes, for that cause it comes to pass that, to whatever side we turn our sight, all things there strike against it with their shape and hue. And how far each thing is away from us, the image causes us to see and provides that we distinguish. For when it is given off, straightway it pushes and drives before it all the air that has its place between it and the eyes, and thus it all glides through our eyeballs, and, as it were, brushes through the pupils, and so passes on.

[244] Therefore it comes to pass that we see how far away each thing is. And the more air is driven on in front, and the longer the breeze which brushes through our eyes, the further each thing is seen to be removed. But you must know that these things are brought to pass by means exceeding quick, so that we see what it is and at the same time how far it is away.

[256] Herein by no means must we deem there is cause to wonder why the idols which strike the eyes cannot be seen one by one, but the whole things are descried. For when wind too lashes us little by little, and when piercing cold streams on us, we are not wont to feel each separate particle of that wind and cold, but rather all at once, and then we perceive blows coming to pass on our body, just as if something were lashing us and giving us the feeling of its body without. Moreover, when we strike a stone with our finger, we touch the very outside of the rock and its colour on the surface, yet we do not feel the colour with our touch, but rather we feel the very hardness of the rock deep down beneath.

[269] Come now and learn why the image is seen beyond the mirror; for indeed it seems removed far within. It is even as those things which in very truth are seen outside a door, when the door affords an unhindered sight through it, and lets many things out of doors be seen from the house. For that vision too is brought to pass by two twin airs. For first the air on our side of the jambs is seen in such a case, then follow the folding doors themselves on right and left, afterwards the light outside brushes through the eyes, and a second air,

and then those things which in very truth are seen without the doors. So when first the image of the mirror has cast itself adrift, while it is coming to our pupils, it pushes and drives before it all the air which has its place between it and our eyes, and so makes us able to perceive all this air before the mirror. But when we have perceived the mirror itself too, straightway the image which is borne from us passes to the mirror, and being cast back returns to our eyes and drives on and rolls in front of it another air, and makes us see this before itself, and therefore seems to be just so much distant from the mirror. Wherefore, again and again, it is not right at all that we should wonder \[that this appearance comes to be both for those things which are really seen out of doors, and also\] for those things which send back a vision from the level surface of the mirrors; since in either case it is brought about by the two airs.

[292] Next it comes to pass that the part of our limbs which is on the right is seen in mirrors on the left, because when the image comes to the plane of the mirror and strikes against it, it is not turned round unchanged, but is dashed back straight; just as if one were to dash a plaster mask, before it is dry, against a pillar or a beam, and it at once were to preserve its shape turned straight to meet us, and were to mould again its own features dashed back towards us. Thus it will come to pass that what was before the right eye, now in turn is the left, and the left in exchange is now the right.

[302] It comes to pass too that the image is handed on from mirror to mirror, so that even five or six idols are wont to be made. For even when things are hidden far back in an inner part of the room, yet, however far distant from the sight along a twisting path, it may be that they will all be brought out thence by winding passages, and, thanks to the several mirrors, be seen to be in the house. So surely does the image reflect from mirror to mirror, and when a left hand is presented, it comes to pass that it is changed to the right, and then once again it is changed about and returns to where it was before.

[311] Moreover, all flank-curved mirrors, endowed with a curve like to our flanks, send back to us right-handed idols, either because the image is borne across from one part of the mirror to another, and then flies towards us, twice dashed back, or else because the image is twisted around, when it has arrived, because the curved shape of the mirror teaches it to turn round towards us.

[318] Moreover, you would believe that idols walk step by step and place their feet as we do, and imitate our gait, just because, from whatever part of the mirror you retire, straightway the idols cannot be turned back from it, inasmuch as nature constrains all things to be carried back, and leap back from things, sent back at equal angles.

[324] Bright things moreover the eyes avoid, and shun to look upon. The sun, too, blinds, if you try to raise your eyes to meet him, because his own power is great, and the idols from him are borne through the clear air, sinking heavily into the deep, and strike upon the eyes, disordering their texture. Moreover, any piercing brightness often burns the eyes for the reason that it contains many seeds of fire, which give birth to pain in the eyes, finding their way in.

[332] Moreover, whatever the jaundiced look upon becomes sickly-yellow, because many seeds of yellow stream off from their bodies to meet the idols of things, and many also are mixed in their eyes, which by their infection tinge all things with their pallor.

[337] Now we see things that are in the light out of the darkness, because, when the black air of the gloom, which is nearer, first enters and seizes on the open eyes, there follows in hot haste a bright air full of light, which, as it were, cleanses the eyes and scatters abroad the dark shadows of the former air. For the latter is many times more nimble, many times finer and more potent. And as soon as it has filled the passages of the eyes with light, and opened up those which before the black air had beleaguered, straightway follow the idols of the things which are lying in the light, and excite our eyes so that we see. But, on the other hand, we cannot do this in the darkness out of the light, because the air of the gloom, which is denser, comes on afterwards, and fills all the channels and beleaguers the passages of the eyes, so that none of the idols of things can be cast upon them and stir them.

[353] And when we see from afar off the square towers of a town, it comes to pass for this cause that they often look round, because every angle from a distance is seen flattened, or rather it is not seen at all, and the blow from it passes away, nor does its stroke come home to our eyes, because, while the idols are being borne on through much air, the air by its frequent collisions constrains it to become blunted. When for this cause every angle alike has escaped our sense, it comes to pass that the structures of stone are worn away as though turned on the lathe; yet they do not look like things which are really round to a near view, but a little resembling them as though in shadowy shape.

[364] Likewise our shadow seems to us to move in the sunshine, and to follow our footsteps and imitate our gait; if indeed you believe that air bereft of light can step forward, following the movements and gait of men. For that which we are wont to name a shadow can be nothing else but air devoid of light. But in very truth it is because in certain spots in due order the ground is bereft of the light of the sun wherever we, as we move on, cut it off, and likewise the part of it which we have left is filled again; for this cause it comes to pass that, what was but now the shadow of our body, seems always to follow unaltered straight along with us. For always new rays of light are pouring out, and the former perish, like wool drawn into a flame. Therefore readily is the ground robbed of light, and is likewise filled again and washes away its own black shadows.

[379] And yet we do not grant that in this the eyes are a whit deceived. For it is theirs to see in what several spots there is light and shade: but whether it is the same light or not, whether it is the same shadow which was here, that now passes there, or whether that rather comes to pass which I said a little before, this the reasoning of the mind alone must needs determine, nor can the eyes know the nature of things. Do not then be prone to fasten on the eyes this fault in the mind.

[387] The ship, in which we journey, is borne along, when it seems to be standing still; another, which remains at anchor, is thought to be passing by. The hills and plains seem to be flying towards the stern, past which we are driving on our ship with skimming sail.

[391] All the stars, fast set in the vault of the firmament, seem to be still, and yet they are all in ceaseless motion, inasmuch as they rise and return again to their distant settings, when they have traversed the heaven with their bright body. And in like manner sun and moon seem to abide in their places, yet actual fact shows that they are borne on.

[397] And mountains rising up afar off from the middle of the waters, between which there is a free wide issue for ships, yet seem united to make a single island.

[400] When children have ceased turning round themselves, so sure does it come to appear to them that the halls are turning about, and the pillars racing round, that scarcely now can they believe that the whole roof is not threatening to fall in upon them.

[404] And again, when nature begins to raise on high the sunbeam ruddy with twinkling fires, and to lift it above the mountains, those mountains above which the sun seems to you to stand, as he touches them with his own fire, all aglow close at hand, are scarce distant from us two thousand flights of an arrow, nay often scarce five hundred casts of a javelin: but between them and the sun lie the vast levels of ocean, strewn beneath the wide coasts of heaven, and many thousands of lands are set between, which diverse races inhabit, and tribes of wild beasts.

[414] And yet a pool of water not deeper than a single finger-breadth, which lies between the stones on the paved street, affords us a view beneath the earth to a depth as vast as the high gaping mouth of heaven stretches above the earth; so that you seem to descry the clouds and the heaven and bodies wise hidden beneath the earth—yet in a magic sky.

[420] Again, when our eager horse has stuck fast amid a river, and we look down into the hurrying waters of the stream, the force seems to be carrying on the body of the horse, though he stands still, athwart the current, and to be thrusting it in hot haste up the stream; and wherever we cast our eyes all things seem to be borne on and flowing forward, as we are ourselves.

[426] Though a colonnade runs on straight-set lines all the way, and stands resting on equal columns from end to end, yet when its whole length is seen from the top end, little by little it contracts to the pointed head of a narrow cone, joining roof with floor, and all the right hand with the left, until it has brought all together into the point of a cone that passes out of sight.

[432] It happens to sailors on the sea that the sun seems to rise from the waves, and again to set in the waves, and hide its light; since verily they behold nothing else but water and sky; so that you must not lightly think that the senses waver at every point.

[436] But to those who know not the sea, ships in the harbour seem to press upon the water maimed, and with broken poop. For all the part of the oars which is raised up above the salt sea spray, is straight, and the rudders are straight above; but all that is sunk beneath the water, seems to be broken back and turned round, yes, and to turn upwards again and twist back so that it almost floats on the water's surface.

[443] And when winds in the night season carry scattered clouds across the sky, then the shining signs seem to glide athwart the storm-clouds, and to be moving on high in a direction far different from their true course.

[447] Then if by chance a hand be placed beneath one eye and press it, it comes to pass by a new kind of perception that all things which we look at seem to become double as we look, double the lights of the lamps with their flowery flames, double the furniture throughout the whole house in twin sets, and double the faces of men, double their bodies.

[453] Again, when sleep has bound our limbs in sweet slumber, and all the body lies in complete rest, yet then we seem to ourselves to be awake and moving our limbs, and in the blind gloom of night we think to see the sun and the light of day, and, though in some walled room, we seem to pass to new sky, new sea, new streams, and mountains, and on foot to cross over plains, and to hear sounds, when the stern silence of night is set all about us, and to give answer, when we do not speak.

[462] Wondrously many other things of this sort we see, all of which would fain spoil our trust in the senses; all in vain, since the greatest part of these things deceives us on account of the opinions of the mind, which we add ourselves, so that things not seen by the senses are counted as seen. For nothing is harder than to distinguish things manifest from things uncertain, which the mind straightway adds of itself.

[469] Again, if any one thinks that nothing is known, he knows not whether that can be known either, since he admits that he knows nothing. Against him then I will refrain from joining issue, who plants himself with his head in the place of his feet. And yet were I to grant that he knows this too, yet I would ask this one question; since he has never before seen any truth in things, whence does he know what is knowing, and not knowing each in turn, what thing has begotten the concept of the true and the false, what thing has proved that the doubtful differs from the certain?

[478] You will find that the concept of the true is begotten first from the senses, and that the senses cannot be gainsaid. For something must be found with a greater surety, which can of its own authority refute the false by the true. Next then, what must be held to be of greater surety than sense? Will reason, sprung from false sensation, avail to speak against the senses, when it is wholly sprung from the senses? For unless they are true, all reason too becomes false. Or will the ears be able to pass judgement on the eyes, or touch on the ears? or again will the taste in the mouth refute this touch; will the nostrils disprove it, or the eyes show it false? It is not so, I trow. For each sense has its faculty set apart, each its own power, and so it must needs be that we perceive in one way what is soft or cold or hot, and in another the diverse colours of things, and see all that goes along with colour. Likewise, the taste of the mouth has its power apart; in one way smells arise, in another sounds. And so it must needs be that one sense cannot prove another false. Nor again will they be able to pass judgement on themselves, since equal trust must at all times be placed in them. Therefore, whatever they have perceived on each occasion, is true.

[500] And if reason is unable to unravel the cause, why those things which close at hand were square, are seen round from a distance, still it is better through lack of reasoning to be at fault in accounting for the causes of either shape, rather than to let things clear seen slip abroad from your grasp, and to assail the

grounds of belief, and to pluck up the whole foundations on which life and existence rest. For not only would all reasoning fall away; life itself too would collapse straightway, unless you chose to trust the senses, and avoid headlong spots and all other things of this kind which must be shunned, and to make for what is opposite to these. Know, then, that all this is but an empty store of words, which has been drawn up and arrayed against the senses.

[513] Again, just as in a building, if the first ruler is awry, and if the square is wrong and out of the straight lines, if the level sags a whit in any place, it must needs be that the whole structure will be made faulty and crooked, all awry, bulging, leaning forwards or backwards, and out of harmony, so that some parts seem already to long to fall, or do fall, all betrayed by the first wrong measurements; even so then your reasoning of things must be awry and false, which all springs from false senses.

[522] Now it is left to explain in what manner the other senses perceive each their own object—a path by no means stony to tread.

[524] First of all, every kind of sound and voice is heard, when they have found their way into the ears and struck upon the sense with their body. For that voice too and sound are bodily you must grant, since they can strike on the senses.

[528] Moreover, the voice often scrapes the throat and shouting makes the windpipe over-rough as it issues forth; since, indeed, the first-beginnings of voices have risen up in greater throng through the narrow passage, and begun to pass forth: and then, in truth, when the passages are crammed, the door too is scraped. There is no doubt then that voices and words are composed of bodily elements, so that they can hurt.

[535] And likewise it does not escape you how much body is taken away and drawn off from men's very sinews and strength by speech continued without pause from the glimmer of rising dawn to the shades of dark night, above all if it is poured out with loud shouting. And so the voice must needs be of bodily form, since one who speaks much loses a part from his body.

[542] Now roughness of voice comes from roughness in its first-beginnings, and likewise smoothness is begotten of their smoothness. Nor do the first-beginnings pierce the ears with like form, when the trumpet bellows deep with muffled tones, and when the barbarous Berecyntian pipe shrieks with shrill buzzing sound, and when the swans at night from the cold marches of Helicon lift with mournful voice their clear lament.

[549] These voices then, when we force them forth from deep within our body, and shoot them abroad straight through our mouth, the pliant tongue, artificer of words, severs apart, and the shaping of the lips in its turn gives them form. Therefore, when it is no long distance from which each single utterance starts and reaches to us, it must needs be that the very words too are clearly heard and distinguished sound by sound. For each utterance preserves its shaping and preserves its form. But if the space set between be over great, passing through much air the words must needs be jostled together, and the utterance disordered, while it flies across the breezes. And so it comes to pass that you can perceive the sound, yet not distinguish what is the meaning of the words: so confounded and entangled does the utterance come to you.

[563] Again one single word often awakes the ears of all in an assembly, shot out from the crier's mouth. Therefore one voice flies apart immediately into many voices, since it sunders itself into all the several ears, imprinting on the words a shape and a clear-cut sound. But that part of the voices which falls not straight upon the ears, passes by and perishes scattered in vain through the air. Some beating upon solid spots are cast back, and give back the sound, and at times mock us with the echo of a word.

[572] And when you see this clearly, you could give account to yourself and others, in what manner among solitary places rocks give back the counterparts of words each in due order, when we seek our comrades wandering amid the dark hills, and with loud voice summon them scattered here and there. I have seen places give back even six or seven cries, when you sent forth but one: so surely did one hill beat back to another and repeat the words trained to come back again.

[580] Such places the dwellers around fancy to be the haunt of goat-footed satyrs and nymphs, and they say that there are fauns, by whose clamour spreading through the night and sportive revels they declare that the dumb silence is often broken; and that sounds of strings are awakened, and sweet sad melodies, which the pipe pours forth, stopped by the fingers of players; and that the race of country folk hears far and wide, when Pan, tossing the piny covering of his half-monstrous head, oftentimes with curling lip runs over the open reeds, so that the pipe ceases not to pour forth woodland music. All other marvels and prodigies of this kind they tell, lest by chance they be thought to live in lonely places, deserted even of the gods. Therefore they boast such wonders in discourse, or else are led on in some other way, even as the whole race of man is over greedy of prattling tales.

[595] For the rest, we need not wonder by what means voices come and arouse the ears through places, though which the eyes cannot see things clear to view. Often too we see a talk carried on through closed doors, because, we may be sure, voice can pass unharmed through winding pores in things, but idols refuse to pass. For they are torn asunder, unless they stream through straight pores, as are those in glass, through which every image can fly.

[603] Moreover, a voice is severed in every direction, since voices are begotten one from another, when once one voice has issued forth and sprung apart into many, even as a spark of fire is often wont to scatter itself into its several fires. And so places hidden far from sight are filled with voices; they are in a ferment all around, alive with sound. But all idols press on in the direct line, as they have once been started; wherefore no one can see beyond the wall, but can perceive voices outside. And yet even this voice, while it passes through the walls of the house, is dulled, and enters the ear all confounded, and we seem to hear a sound rather than words.

[615] Nor do the tongue and palate, whereby we perceive taste, need longer account or give more trouble.

[617] First of all we perceive taste in our mouth, when we press it out in chewing our food, just as if one by chance begins to squeeze with the hand and dry a sponge full of water. Then what we press out is all spread abroad through the pores of the palate, and through the winding passages of the loose-meshed tongue. Therefore, when the bodies of the oozing savour are smooth, they touch pleasantly, and pleasantly stroke all around the moist sweating vault above the tongue. But, on the other hand, the more each several thing is filled with roughness, the more does it prick the sense and tear it in its onslaught.

[627] Next pleasure comes from the savour within the limit of the palate; but when it has passed headlong down through the jaws, there is no pleasure while it is all being spread abroad into the limbs. Nor does it matter a whit with what diet the body is nourished, provided only you can digest what you take, and spread it abroad in the limbs, and keep an even moistness in the stomach.

[633] Now how for different creatures there is different food and poison I will unfold, or for what cause, what to some is noisome and bitter, can yet seem to others most sweet to eat. And there is herein a difference and disagreement so great that what is food to one, is to others biting poison; even as there is a certain serpent, which, when touched by a man's spittle, dies and puts an end to itself by gnawing its own body. Moreover, to us hellebore is biting poison, but it makes goats and quails grow fat.

[642] That you may be able to learn by what means this comes to be, first of all it is right that you remember what we have said ere now, that the seeds contained in things are mingled in many ways. Besides all living creatures which take food, just as they are unlike to outer view and a diverse outward contour of the limbs encloses them each after their kind, so also are they fashioned of seeds of varying shape. And further, since the seeds are unlike, so must the spaces and passages, which we call the openings, be different in all their limbs, and in the mouth and palate too. Some of these then must needs be smaller, some greater, they must be three-cornered for some creatures, square for others, many again round, and some of many angles in many ways. For according as the arrangement of shapes and the motions demand, so the shapes of the openings must needs differ, and the passages vary according to the texture which shuts them in. Therefore, when what is sweet to some becomes bitter to others, for the man to whom it is sweet, the smoothest bodies must needs enter the pores of the palate caressingly, but, on the other hand, for those to whom the same

thing is sour within, we can be sure it is the rough and hooked bodies which penetrate the passages.

[663] Now from these facts it is easy to learn of each case: thus when fever has attacked a man, and his bile rises high, or the violence of disease is aroused in some other way, then his whole body is disordered, and then all the positions of the first-beginnings are changed about; it comes to pass that the bodies which before suited his taste, suit it no longer, and others are better fitted, which can win their way in and beget a sour taste. For both kinds are mingled in the savour of honey; as I have often shown you above ere now.

[673] Come now, I will tell in what manner the impact of smell touches the nostrils. First there must needs be many things whence the varying stream of scents flows and rolls on, and we must think that it is always streaming off and being cast and scattered everywhere abroad; but one smell is better fitted to some living things, another to others, on account of the unlike shapes of the elements. And so through the breezes bees are drawn on however far by the scent of honey, and vultures by corpses. Then the strength of dogs sent on before leads on the hunters whithersoever the cloven hoof of the wild beasts has turned its steps, and the white goose, saviour of the citadel of Romulus's sons, scents far ahead the smell of man. So diverse scents assigned to diverse creatures lead on each to its own food, and constrain them to recoil from noisome poison, and in that way are preserved the races of wild beasts.

[687] This very smell then, whenever it stirs the nostrils, may in one case be thrown further than in another. But yet no smell at all is carried as far as sound, as voice, I forebear to say as the bodies which strike the pupil of the eyes and stir the sight. For it strays abroad and comes but slowly, and dies away too soon, its frail nature scattered little by little among the breezes of air. Firstly, because coming from deep within it is not readily set loose from the thing: for that smells stream off and depart from things far beneath the surface is shown because all things seem to smell more when broken, when crushed, when melted in the fire. Again, one may see that it is fashioned of larger first-beginnings than voice, since it does not find a path through stone walls, where voice and sound commonly pass. Wherefore too you will see that it is not so easy to trace in what spot that which smells has its place. For the blow grows cool as it dallies through the air, nor do tidings of things rush hot to the sense. And so dogs often go astray, and have to look for the footprints.

[706] Yet this does not happen only among smells and in the class of savours, but likewise the forms and colours of things are not all so well fitted to the senses of all, but that certain of them are too pungent to the sight of some creatures. Nay, indeed, ravening lions can by no means face and gaze upon the cock, whose wont it is with clapping wings to drive out the night, and with shrill cry to summon dawn; so surely do they at once bethink themselves of flight, because, we may be sure, there are in the body of cocks certain seeds, which, when they are cast into the eyes of lions, stab into the pupils, and cause sharp pain, so that they cannot bear up against them in fierce confidence; and yet these things cannot in any way hurt our eyes, either because they do not pierce them or because, although they do, a free outlet from the eyes is afforded them, so that they cannot by staying there hurt the eyes in any part.

[722] Come now, let me tell you what things stir the mind, and learn in a few words whence come the things which come into the understanding.

[724] First of all I say this, that many idols of things wander about in many ways in all directions on every side, fine idols, which easily become linked with one another in the air, when they come across one another's path, like spider's web and gold leaf. For indeed these idols are far finer in their texture than those which fill the eyes and arouse sight, since these pierce through the pores of the body and awake the fine nature of the mind within, and arouse its sensation.

[732] And so we see Centaurs and the limbs of Scyllas, and the dog-faces of Cerberus and idols of those who have met death, and whose bones are held in the embrace of earth; since idols of every kind are borne everywhere, some which are created of their own accord even in the air, some which depart in each case from diverse things, and those again which are made and put together from the shapes of these. For in truth the image of the Centaur comes not from a living thing, since there never was the nature of such a living creature, but when by chance the images of man and horse have met, they cling together readily at once, as we have said ere now, because of their subtle nature and fine fabric. All other things of this kind are

fashioned in the same way. And when they move nimbly with exceeding lightness, as I have shown ere now, any one such subtle image stirs their mind; for the mind is fine and of itself wondrous nimble.

[749] That these things come to pass as I tell, you may easily learn from this. Inasmuch as the one is like the other, what we see with the mind, and what we see with the eyes, they must needs be created in like manner.

[752] Now, therefore, since I have shown that I see a lion maybe, by means of idols, which severally stir the eyes, we may know that the mind is moved in like manner, in that it sees a lion and all else neither more nor less than the eyes, except that it sees finer idols.

[757] And when sleep has relaxed the limbs, the understanding of the mind is for no other cause awake, but that these same idols stir our minds then, as when we are awake, insomuch that we seem surely to behold even one who has quitted life, and is holden by death and the earth. This nature constrains to come to pass just because all the senses of the body are checked and at rest throughout the limbs, nor can they refute the falsehood by true facts. Moreover, the memory lies at rest, and is torpid in slumber, nor does it argue against us that he, whom the understanding believes that it beholds alive, has long ago won to death and doom.

[768] For the rest, it is not wonderful that the idols should move and toss their arms and their other limbs in rhythmic time. For it comes to pass that the image in sleep seems to do this; inasmuch as when the first image passes away and then another comes to birth in a different posture, the former seems then to have changed its gesture. And indeed we must suppose that this comes to pass in quick process: so great is the speed, so great the store of things, so great, in any one instant that we can perceive, the abundance of the little parts of images, whereby the supply may be continued.

[777] And in these matters many questions are asked, and there are many things we must make clear, if we wish to set forth the truth plainly.

[779] First of all it is asked why, whatever the whim may come to each of us to think of, straightway his mind thinks of that very thing. Do the idols keep watch on our will, and does the image rise up before us, as soon as we desire, whether it pleases us to think of sea or land or sky either? Gatherings of men, a procession, banquets, battles, does nature create all things at a word, and make them ready for us? And that when in the same place and spot the mind of others is thinking of things all far different.

[788] What, again, when in sleep we behold idols dancing forward in rhythmic measure, and moving their supple limbs, when alternately they shoot out swiftly their supple arms, and repeat to the eyes a gesture made by the feet in harmony? Idols in sooth are steeped in art and wander about trained to be able to tread their dance in the nighttime.

[794] Or will this be nearer truth? Because within a single time, which we perceive, that is, when a single word is uttered, many times lie unnoted, which reasoning discovers, therefore it comes to pass that in any time however small the several idols are there ready at hand in all the several spots. So great is the speed, so great the store of things. Therefore when the first image passes away and then another comes to birth in a different posture, the former seems then to have changed its gesture. Again, because they are fine, the mind cannot discern them sharply, save those which it strains to see; therefore all that there are besides these pass away, save those for which it has made itself ready. Moreover, the mind makes itself ready, and hopes it will come to pass that it will see what follows upon each several thing; therefore it comes to be. Do you not see the eyes too, when they begin to perceive things which are fine, strain themselves and make themselves ready, and that without that it cannot come to pass that we see things sharply? And yet even in things plain to see you might notice that, if you do not turn your mind to them, it is just as if the thing were sundered from you all the time, and very far away. How then is it strange, if the mind loses all else, save only the things to which it is itself given up? Then too on small signs we base wide opinions, and involve ourselves in the snare of self-deceit.

[818] It happens too that from time to time an image of different kind rises before us, and what was before a woman, seems now to have become a man before our very eyes, or else one face or age follows after

another. But that we should not think this strange, sleep and its forgetfulness secure.

[823] Herein you must eagerly desire to shun this fault, and with foresighted fear to avoid this error; do not think that the bright light of the eyes was created in order that we may be able to look before us, or that, in order that we may have power to plant long paces, therefore the tops of shanks and thighs, based upon the feet, are able to bend; or again, that the forearms are jointed to the strong upper arms and hands given us to serve us on either side, in order that we might be able to do what was needful for life. All other ideas of this sort, which men proclaim, by distorted reasoning set effect for cause, since nothing at all was born in the body that we might be able to use it, but what is born creates its own use. Nor did sight exist before the light of the eyes was born, nor pleading in words before the tongue was created, but rather the birth of the tongue came long before discourse, and the ears were created much before sound was heard, and in short all the limbs, I trow, existed before their use came about: they cannot then have grown for the purpose of using them.

[843] But, on the other side, to join hands in the strife of battle, to mangle limbs and befoul the body with gore; these things were known long before gleaming darts flew abroad, and nature constrained men to avoid a wounding blow, before the left arm, trained by art, held up the defence of a shield. And of a surety to trust the tired body to rest was a habit far older than the soft-spread bed, and the slaking of the thirst was born before cups. These things, then, which are invented to suit the needs of life, might well be thought to have been discovered for the purpose of using them. But all those other things lie apart, which were first born themselves, and thereafter revealed the concept of their usefulness. In this class first of all we see the senses and the limbs; wherefore, again and again, it cannot be that you should believe that they could have been created for the purpose of useful service.

[858] This, likewise, is no cause for wonder, that the nature of the body of every living thing of itself seeks food. For verily I have shown that many bodies ebb and pass away from things in many ways, but most are bound to pass from living creatures. For because they are sorely tried by motion and many bodies by sweating are squeezed and pass out from deep beneath, many are breathed out through their mouths, when they pant in weariness; by these means then the body grows rare, and all the nature is undermined; and on this follows pain. Therefore food is taken to support the limbs and renew strength when it passes within, and to muzzle the gaping desire for eating through all the limbs and veins. Likewise, moisture spreads into all the spots which demand moisture; and the many gathered bodies of heat, which furnish the fires to our stomach, are scattered by the incoming moisture, and quenched like a flame, that the dry heat may no longer be able to burn our body. Thus then the panting thirst is washed away from our body, thus the hungry yearning is satisfied.

[877] Next, how it comes to pass that we are able to plant our steps forward, when we wish, how it is granted us to move our limbs in diverse ways, and what force is wont to thrust forward this great bulk of our body, I will tell: do you hearken to my words. I say that first of all idols of walking fall upon our mind, and strike the mind, as we have said before. Then comes the will; for indeed no one begins to do anything, ere the mind has seen beforehand what it will do, and inasmuch as it sees this beforehand, an image of the thing is formed. And so, when the mind stirs itself so that it wishes to start and step forward, it straightway strikes the force of soul which is spread abroad in the whole body throughout limbs and frame. And that is easy to do, since it is held in union with it. Then the soul goes on and strikes the body, and so little by little the whole mass is thrust forward and set in movement. Moreover, at such times the body too becomes rarefied, and air (as indeed it needs must do, since it is always quick to move), comes through the opened spaces, and pierces through the passages in abundance, and so it is scattered to all the tiny parts of the body. Here then it is brought about by two causes acting severally, that the body, like a ship, is borne on by sails and wind.

[898] Nor yet herein is this cause for wonder, that such tiny bodies can twist about a body so great, and turn round the whole mass of us. For in very truth the wind that is finely wrought of a subtle body drives and pushes on a great ship of great bulk, and a single hand steers it, with whatever speed it be moving, and twists a single helm whithersoever it will; and by means of pulleys and tread-wheels a crane can move many things of great weight, and lift them up with light poise.

[907] Now in what ways this sleep floods repose over the limbs, and lets loose the cares of the mind from the breast, I will proclaim in verses of sweet discourse, rather than in many; even as the brief song of the swan is better than the clamour of cranes, which spreads abroad among the clouds of the south high in heaven. Do you lend me a fine ear and an eager mind, lest you should deny that what I say can be, and with a breast that utterly rejects the words of truth part company with me, when you are yourself in error and cannot discern.

[916] First of all sleep comes to pass when the strength of the soul is scattered about among the limbs, and in part has been cast out abroad and gone its way, and in part has been pushed back and passed inward deeper within the body. For then indeed the limbs are loosened and droop. For there is no doubt that this sense exists in us, thanks to the soul; and when sleep hinders it from being, then we must suppose that the soul is disturbed and cast out abroad: yet not all of it; for then the body would lie bathed in the eternal chill of death. For indeed, when no part of the soul stayed behind hidden in the limbs, as fire is hidden when choked beneath much ashes, whence could sense on a sudden be kindled again throughout the limbs, as flame can rise again from a secret fire?

[929] But by what means this new state of things is brought about, and whence the soul can be disturbed and the body grow slack, I will unfold: be it your care that I do not scatter my words to the winds.

[932] First of all it must needs be that the body on the outer side, since it is touched close at hand by the breezes of air, is thumped and buffeted by its oft-repeated blows, and for this cause it is that well-nigh all things are covered either by a hide, or else by shells, or by a hard skin, or by bark. Further, as creatures breathe, the air at the same time smites on the inner side, when it is drawn in and breathed out again. Wherefore, since the body is buffeted on both sides alike, and since the blows pass on through the tiny pores to the first parts and first particles of our body, little by little there comes to be, as it were, a falling asunder throughout our limbs. For the positions of the first-beginnings of body and mind are disordered. Then it comes to pass that a portion of the soul is cast out abroad, and part retreats and hides within; part too, torn asunder through the limbs, cannot be united in itself, nor by motion act and react; for nature bars its meetings and chokes the ways; and so, when the motions are changed, sense withdraws deep within. And since there is nothing which can, as it were, support the limbs, the body grows feeble, and all the limbs are slackened; arms and eyelids droop, and the hams, even as you lie down, often give way, and relax their strength.

[954] Again, sleep follows after food, because food brings about just what air does, while it is being spread into all the veins, and the slumber which you take when full or weary, is much heavier because then more bodies than ever are disordered, bruised with the great effort. In the same manner the soul comes to be in part thrust deeper within; it is also more abundantly driven out abroad, and is more divided and torn asunder in itself within.

[962] And for the most part to whatever pursuit each man clings and cleaves, or on whatever things we have before spent much time, so that the mind was more strained in the task than is its wont, in our sleep we seem mostly to traffic in the same things; lawyers think that they plead their cases and confront law with law, generals that they fight and engage in battles, sailors that they pass a life of conflict waged with winds, and we that we pursue our task and seek for the nature of things for ever, and set it forth, when it is found, in writings in our country's tongue. Thus for the most part all other pursuits and arts seem to hold the minds of men in delusion during their sleep.

[973] And if ever men have for many days in succession given interest unflagging to the games, we see for the most part, that even when they have ceased to apprehend them with their senses, yet there remain open passages in their minds, whereby the same images of things may enter in. And so for many days the same sights pass before their eyes, so that even wide awake they think they see men dancing and moving their supple limbs, and drink in with their ears the clear-toned chant of the lyre, and its speaking strings, and behold the same assembly and at the same time the diverse glories of the stage all bright before them.

[984] So exceeding great is the import of zeal and pleasure, and the tasks wherein not only men are wont to spend their efforts, but even every living animal. In truth you will see strong horses, when their limbs are lain to rest, yet sweat in their sleep, and pant for ever, and strain every nerve as though for victory, or else as

though the barriers were opened \[struggle to start\]. And hunters' dogs often in their soft sleep yet suddenly toss their legs, and all at once give tongue, and again and again snuff the air with their nostrils, as if they had found and were following the tracks of wild beasts; yea, roused from slumber they often pursue empty images of stags, as though they saw them in eager flight, until they shake off the delusion and return to themselves. But the fawning brood of pups brought up in the house, in a moment shake their body and lift it from the ground, just as if they beheld unknown forms and faces. And the wilder any breed may be, the more must it needs rage in its sleep. But the diverse tribes of birds fly off, and on a sudden in the night time trouble the peace of the groves of the gods, if in their gentle sleep they have seen hawks, flying in pursuit, offer fight and battle.

[1011] Moreover, the minds of men, which with mighty movement perform mighty tasks, often in sleep do and dare just the same; kings storm towns, are captured, join battle, raise a loud cry, as though being murdered—all without moving. Many men fight hard, and utter groans through their pain, and, as though they were bitten by the teeth of a panther or savage lion, fill all around them with their loud cries. Many in their sleep discourse of high affairs, and very often have been witness to their own guilt. Many meet death; many, as though they were falling headlong with all their body from high mountains to the earth, are beside themselves with fear, and, as though bereft of reason, scarcely recover themselves from sleep, quivering with the turmoil of their body. Likewise a man sits down thirsty beside a stream or a pleasant spring, and gulps almost the whole river down his throat. Innocent children often, if bound fast in slumber they think they are lifting their dress at a latrine or a roadside vessel, pour forth the filtered liquid from their whole body, and the Babylonian coverlets of rich beauty are soaked. Later on to those, into the seething waters of whose life the vital seed is passing for the first time, when the ripeness of time has created it in their limbs, there come from without idols from every body, heralding a glorious face or beautiful colouring, which stir and rouse their passion to bursting.

[1037] There is stirred in us that seed, whereof we spoke before, when first the age of manhood strengthens our limbs. For one cause moves and rouses one thing, a different cause another; from man only the influence of man stirs human seed. And as soon as it has been aroused, bursting forth it makes its way from out the whole body through the limbs and frame, coming together into fixed places, and straightway rouses at last the natural parts of the body; and there arises the desire to seek that body, by which the mind is smitten with love. For as a rule all men fall towards the wound, and the blood spurts out in that direction, whence we are struck by the blow, and, if it is near at hand, the red stream reaches our foe. Thus, then, he who receives a blow from the darts of Venus, whoso'er it be who wounds him, inclines to that whereby he is smitten; for an unspoken desire foretells the pleasure to come.

[1058] This pleasure is Venus for us; from it comes Cupid, our name for love, from it first of all that drop of Venus's sweetness has trickled into our heart and chilly care has followed after. For if the object of your love is away, yet images of her are at hand, her loved name is present to your ears. But it is best to flee those images, and scare away from you what feeds your love, and to turn your mind some other way, and vent your passion on other objects, and not to keep it, set once for all on the love of one, and thereby store up for yourself care and certain pain. For the sore gains strength and festers by feeding, and day by day the madness grows, and the misery becomes heavier, unless you dissipate the first wounds by new blows, and heal them while still fresh, wandering after some wanton, or else can turn the movements of the mind elsewhere.

[1073] Nor is he who shuns love bereft of the fruits of Venus, but rather he chooses those joys which bring no pain. For surely the pleasure from these things is more untainted for the heart-whole than for the love-sick; for in the very moment of possession the passion of lovers ebbs and flows with undetermined current, nor are they sure what first to enjoy with eyes or hands. What they have grasped, they closely press and cause pain to the body, and often fasten their teeth in the lips, and dash mouth against mouth in kissing, because their pleasure is not unalloyed, and there are secret stings which spur them to hurt even the very thing, be it what it may, whence arise those germs of madness.

[1084] But Venus lightly breaks the force of these pains in love, and fond pleasure mingled with them sets a curb upon their teeth. For therein there is hope that from the same body, whence comes the source of their

flame, the fire may in turn be quenched. Yet nature protests that all this happens just the other way; and this is the one thing, whereof the more and more we have, the more does our heart burn with the cursed desire. For meat and drink are taken within the limbs; and since they are able to take up their abode in certain parts, thereby the desire for water and bread is easily sated. But from the face and beautiful bloom of man nothing passes into the body to be enjoyed save delicate images; and often this love-sick hope is scattered to the winds. Just as when in a dream a thirsty man seeks to drink and no liquid is granted him, which could allay the fire in his limbs, but he seeks after images of water, and struggles in vain, and is still thirsty, though he drinks amid the torrent stream, even so in love Venus mocks the lovers with images, nor can the body sate them, though they gaze on it with all their eyes, nor can they with their hands tear off aught from the tender limbs, as they wander aimless over all the body. Even at last when the lovers embrace and taste the flower of their years, eagerly they clasp and kiss, and pressing lip on lip breathe deeply; yet all for naught, since they cannot tear off aught thence, nor enter in and pass away, merging the whole body in the other's frame; for at times they seem to strive and struggle to do it. And at length when the gathering desire is sated, then for a while comes a little respite in their furious passion. Then the same madness returns, the old frenzy is back upon them, when they yearn to find out what in truth they desire to attain, nor can they discover what device may conquer their disease; in such deep doubt they waste beneath their secret wound.

[1121] Remember too that they waste their strength and are worn away with effort, remember that their life is passed beneath another's sway. Meanwhile their substance slips away, and is turned to Babylonian coverlets, their duties grow slack, and their fair name totters and sickens: while on the mistress's feet laugh and lovely Sicyonian slippers; yes, and huge emeralds with their green flash are set in gold, and the sea-dark dress is for ever being frayed, and roughly used it drinks in sweat. The well-gotten wealth of their fathers becomes hair-ribbons and diadems; sometimes it is turned to Greek robes and stuffs of Elis and Ceos. With gorgeous napery and viands feasts are set out, and games and countless cups, perfumes, and wreaths and garlands; all in vain, since from the heart of this fountain of delights wells up some bitter taste to choke them even amid the flowers—either when the conscience-stricken mind feels the bite of remorse that life is being spent in sloth, and is passing to ruin in wantonness, or because she has thrown out some idle word and left its sense in doubt, and it is planted deep in the passionate heart, and becomes alive like a flame, or because he thinks she casts her eyes around too freely, and looks upon some other, or sees in her face some trace of laughter.

[1141] And these ills are found in love that is true and fully prosperous; but when love is crossed and hopeless there are ills, which you might detect even with closed eyes, ills without number; so that it is better to be on the watch beforehand, even as I have taught you, and to beware that you be not entrapped. For to avoid being drawn into the meshes of love, is not so hard a task as when caught amid the toils to issue out and break through the strong bonds of Venus. And yet even when trammelled and fettered you might escape the snare, unless you still stand in your own way, and at the first overlook all the blemishes of mind and body in her, whom you seek and woo. For for the most part men act blinded by passion, and assign to women excellencies which are not truly theirs. And so we see those in many ways deformed and ugly dearly loved, yea, prospering in high favour. And one man laughs at another, and urges him to appease Venus, since he is wallowing in a base passion, yet often, poor wretch, he cannot see his own ills, far greater than the rest. A black love is called 'honey-dark', the foul and filthy 'unadorned', the green-eyed 'Athena's image', the wiry and wooden 'a gazelle', the squat and dwarfish 'one of the graces', 'all pure delight', the lumpy and ungainly 'a wonder', and 'full of majesty'. She stammers and cannot speak, 'she has a lisp'; the dumb is 'modest'; the fiery, spiteful gossip is 'a burning torch'. One becomes a 'slender darling', when she can scarce live from decline; another half dead with cough is 'frail'. Then the fat and full-bosomed is 'Ceres' self with Bacchus at breast'; the snub-nosed is 'sister to Silenus, or a Satyr'; the thick-lipped is 'a living kiss'. More of this sort it were tedious for me to try to tell.

[1171] But yet let her be fair of face as you will, and from her every limb let the power of Venus issue forth: yet surely there are others too: surely we have lived without her before, surely she does just the same in all things, and we know it, as the ugly, and of herself, poor wretch, reeks of noisome smells, and her maids flee far from her and giggle in secret. But the tearful lover, denied entry, often smothers the threshold with flowers and garlands, and anoints the haughty door-posts with marjoram, and plants his kisses, poor wretch, upon

the doors; yet if, admitted at last, one single breath should meet him as he comes, he would seek some honest pretext to be gone, and the deep-drawn lament long-planned would fall idle, and then and there he would curse his folly, because he sees that he has assigned more to her than it is right to grant to any mortal. Nor is this unknown to our queens of love; nay the more are they at pains to hide all behind the scenes from those whom they wish to keep fettered in love; all for naught, since you can even so by thought bring it all to light and seek the cause of all this laughter, and if she is of a fair mind, and not spiteful, overlook faults in your turn, and pardon human weaknesses.

[1192] Nor does the woman sigh always with feigned love, when clasping her lover she holds him fast, showering her kisses. For often she does it from the heart, and yearning for mutual joys she woos him to reach the goal of love. And in no other way would birds, cattle, wild beasts, the flocks, and mares be able to submit to the males, except because their nature too is afire, and is burning to overflow. Do you not see too how those whom mutual pleasure has bound, are often tortured in their common chains? Wherefore, again and again, as I say, the pleasure is common.

[1209] And often when in the mingling of sex the woman by sudden force has mastered the man's might and seized on it with her own, then children are borne like the mother, thanks to the mother's seed, just as the father's seed may make them like the father. But those whom you see with the form of both, mingling side by side the features of both parents, spring alike from the father's body and the mother's blood.

[1218] It comes to pass too sometimes that they can be created like their grandparents, and often recall the form of their grandparents' parents, for the reason that many first-beginnings in many ways are often mingled and concealed in the body of their parents, which, starting from the stock of the race, father hands on to father; therefrom Venus unfolds forms with varying chance, and recalls the look, the voice, the hair of ancestors; since indeed these things are none the more created from a seed determined than are our faces and bodies and limbs.

[1227] Again the female sex may spring from the father's seed, and males come forth formed from the mother's body. For every offspring is fashioned of the two seeds, and whichever of the two that which is created more resembles, of that parent it has more than an equal share; as you can yourself discern, whether it be a male offspring or a female birth.

[1233] Nor do powers divine deny to any man a fruitful sowing of seed, that he may never be called father by sweet children, but must live out his years in barren wedlock; as men believe for the most part, and sorrowing sprinkle the altars with streams of blood and fire the high places with their gifts, that they may make their wives pregnant with bounteous seed. Yet all in vain they weary the majesty of the gods and their sacred lots. For some of them are barren through seed overthick, and again overliquid and thin in turn. The thin, because it cannot fix its fastenings, suddenly trickles away, stick and adhere to the parts, at once flows away and departs withdrawn in untimely birth. That which is too thick, again, since it is emitted too closely clotted, either does not leap forward with so far-reaching a blow, or cannot equally well penetrate the part, or, although it penetrate, does not easily mix with the woman's seed.

For the couplings in wedlock are seen to be very diverse. And many women have been barren in several wedlocks before, yet at length have found a mate from whom they might conceive children, and grow rich with sweet offspring. And often even for those, for whom wives fruitful ere now in the house had been unable to bear, a well-matched nature has been found, so that they might fortify their old age with children. Of so great import is it that the one seed should be able to mingle with the other in a manner suited for generation, and that thick should unite with liquid and liquid with thick. And herein it is of import on what diet life is sustained; for on some food sees swell within the limbs and on others they are thinned away and grow weak instead.

[1263] And in what way even the enticing act of love is performed, that too is of great import; since for the most part it is thought that women conceive best after the fashion of beasts and in the manner of quadrupeds, because the seeds can thus take up their position, when the best is below and the loins are raised. Nor have wives any need at all for lascivious movements. For the woman prevents herself from

conceiving and fights against it, if despite her joy she withdraws from the mans passion with her buttocks, and receives the moist fluid with all her breast relaxed. For thus she drives the furrow of the plough from the true direction of the path, and turns aside the blow of seed from the vital parts. Such motions whores are wont to make for their own sake, that they be not filled with seed and lie pregnant, and also that the act of love may be more seductive to men. But naught of this is seen to be needful for our wives.

[1278] Sometimes 'tis by no divine act or through the shafts of Venus that a woman of form less fair is loved. For at times a woman may bring it about by her own doing, by her unselfish ways, and the neat adornment of her body, that she accustoms you easily to live your life with her. Nay more, habit alone can win love; for that which is struck ever and again by a blow, however light, is yet mastered in long lapse of time, and gives way. Do you not see too how drops of water falling upon rocks in long lapse of time drill through the rocks?

1.6. Book Five

[01] WHO can avail by might of mind to build a poem worthy to match the majesty of truth and these discoveries? Or who has such skill in speech, that he can fashion praises to match his deserts, who has left us such prizes, conceived and sought out by his own mind? There will be no one, I trow, born of mortal body. For if we must speak as befits the majesty of the truth now known to us, then he was a god, yea a god, noble Memmius, who first found out that principle of life, which now is called wisdom, and who by his skill saved our life from high seas and thick darkness, and enclosed it in calm waters and bright light.

[13] For set against this the heaven-sent discoveries of others in the days of old. Ceres is fabled to have taught to men the growing of corn, and Liber the liquid of the vine-born juice; and yet life could have gone on without these things, as tales tell us that some races live even now. But a good life could not be without a clean heart; wherefore more rightly is he counted a god by us, thanks to whom now sweet solaces for life soothe the mind, spread even far and wide among great peoples.

[22] But if you think that the deeds of Hercules excel this, you will be carried still further adrift from true reasoning. For what harm to us now were the great gaping jaws of the old Nemean lion and the bristling boar of Arcadia? Or what could the bull of Crete do, or the curse of Lerna, the hydra with its pallisade of poisonous snakes? what the triple-breasted might of threefold Geryon? \[How could those birds\] have done us such great hurt, who dwelt in the Stymphalian \[fen\], or the horses of Diomedes the Thracian, breathing fire from their nostrils near the coasts of the Bistones and Ismara? Or the guardian of the glowing golden apples of Hesperus's daughters, the dragon, fierce, with fiery glance, with his vast body twined around the tree-trunk, yea, what harm could he have done beside the Atlantic shore and the grim tracts of ocean, where none of us draws near nor barbarian dares to venture? And all other monsters of this sort which were destroyed, had they not been vanquished, what hurt, pray, could they have done alive? Not a jot, I trow: the earth even now teems in such abundance with wild beasts, and is filled with trembling terrors throughout forests and mighty mountains and deep woods; but for the most part we have power to shun those spots.

[43] But unless the heart is cleansed, what battles and perils must we then enter into despite our will? What sharp pangs of passion then rend the troubled man, yea and what fears besides? what of pride, filthiness and wantonness? what havoc they work? what of luxury and sloth? He then who has subdued all these and driven them from the mind by speech, not arms, shall this man not rightly be found worthy to rank among the gods? Above all, since 'twas his wont to speak many sayings in good and godlike words about the immortal gods themselves, and in his discourse to reveal the whole nature of things.

[55] In his footsteps I tread, and while I follow his reasonings and set out in my discourse, by what law all things are created, and how they must needs abide by it, nor can they break through the firm ordinances of their being, even as first of all the nature of the mind has been found to be formed and created above other things with a body that has birth, and to be unable to endure unharmed through the long ages, but it is images that are wont in sleep to deceive the mind, when we seem to behold one whom life has left;

for what remains, the train of my reasoning has now brought me to this point, that I must give account how the world is made of mortal body and also came to birth; and in what ways that gathering of matter

established earth, sky, sea, stars, sun, and the ball of the moon; then what living creatures sprang from the earth, and which have never been born at any time; and in what manner the race of men began to use ever-varying speech one to another by naming things; and in what ways that fear of the gods found its way into their breasts, which throughout the circle of the world keeps revered shrines, lakes, groves, altars, and images of the gods.

Moreover, I will unfold by what power nature, the helmsman, steers the courses of the sun and the wanderings of the moon; lest by chance we should think that they of their own will 'twixt earth and sky fulfil their courses from year to year, with kindly favour to the increase of earth's fruits and living creatures, or should suppose that they roll on by any forethought of the gods.

For those who have learnt aright that the gods lead a life free from care, yet if from time to time they wonder by what means all things can be carried on, above all among those things which are descried above our heads in the coasts of heaven, are borne back again into the old beliefs of religion, and adopt stern overlords, whom in their misery they believe have all power, knowing not what can be and what cannot, yea and in what way each thing has its power limited, and its deep-set boundary-stone.

[91] For the rest, that I may delay you no more with promises, first of all look upon seas, and lands, and sky; their threefold nature, their three bodies, Memmius, their three forms so diverse, their three textures so vast, one single day shall hurl to ruin; and the massive form and fabric of the world, held up for many years, shall fall headlong. Nor does it escape me in my mind, how strangely and wonderfully this strikes upon the understanding, the destruction of heaven and earth that is to be, and how hard it is for me to prove it surely in my discourse; even as it always happens, when you bring to men's ears something unknown before, and yet you cannot place it before the sight of their eyes, nor lay hands upon it; for by this way the paved path of belief leads straightest into the heart of man and the quarters of his mind. Yet still I will speak out. Maybe that the very fact will give credence to my words, that earthquakes will arise and within a little while you will behold all things shaken in mighty shock. But may fortune at the helm steer this far away from us, and may reasoning rather than the very fact make us believe that all things can fall in with a hideous rending crash.

[110] Yet before I essay on this point to declare destiny in more holy wise, and with reasoning far more sure than the Pythian priestess, who speaks out from the tripod and laurel of Phoebus, I will unfold many a solace for you in my learned discourse; lest by chance restrained by religion you should think that earth and sun, and sky, sea, stars, and moon must needs abide for everlasting, because of their divine body, and therefore should suppose it right that after the manner of the giants all should pay penalty for their monstrous crime, who by their reasoning shake the walls of the world, and would fain quench the glorious sun in heaven, branding things immortal with mortal names; yet these are things so far sundered from divine power, and are so unworthy to be reckoned among gods, that they are thought rather to be able to afford us the concept of what is far removed from vital motion and sense.

[126] For verily it cannot be that we should suppose that the nature of mind and understanding can be linked with every body: even as a tree cannot exist in the sky, nor clouds in the salt waters, nor can fishes live in the fields, nor blood be present in wood nor sap in stones. It is determined and ordained where each thing can grow and have its place. So the nature of mind cannot come to birth alone without body, nor exist far apart from sinews and blood. But if this could be, far sooner might the force of mind itself exist in head or shoulders, or right down in the heels, and be wont to be born in any part you will, but at least remain in the same man or the same vessel. But since even within our body it is determined and seen to be ordained where soul and mind can dwell apart and grow, all the more must we deny that outside the whole body and the living creature's form, it could last on in the crumbling sods of earth or in the fire of the sun or in water or in the high coasts of heaven. They are not then created endowed with divine feeling, inasmuch as they cannot be quickened with the sense of life.

[146] This, too, it cannot be that you should believe, that there are holy abodes of the gods in any parts of the world, For the fine nature of the gods, far sundered from our senses, is scarcely seen by the understanding of the mind; and since it lies far beneath all touch or blow from our hands, it cannot indeed touch anything which can be touched by us. For nothing can touch which may not itself be touched. Therefore even their abodes

too must needs be unlike our abodes, fine even as are their bodies; all which I will hereafter prove to you with plenteous argument.

[156] Further, to say that for man's sake they were willing to fashion the glorious nature of the world, and for that cause 'tis fitting to praise the work of the gods, which is worthy to be praised, and to believe that it will be everlasting and immortal, and that it is sin ever to stir from its seats by any force what was established for the races of men for all time by the ancient wisdom of the gods, or to assail it with argument, and to overthrow it from top to bottom; to imagine and to add all else of this sort, Memmius, is but foolishness. For what profit could our thanks bestow on the immortal and blessed ones, that they should essay to do anything for our sakes? Or what new thing could have enticed them so long after, when they were aforetime at rest, to desire to change their former life? For it is clear that he must take joy in new things, to whom the old are painful; but for him, whom no sorrow has befallen in the time gone by, when he led a life of happiness, for such an one what could have kindled a passion for new things? Or what ill had it been to us never to have been made? Did our life, forsooth, lie wallowing in darkness and grief, until the first creation of things dawned upon us? For whosoever has been born must needs wish to abide in life, so long as enticing pleasure shall hold him. But for him, who has never tasted the love of life, and was never in the ranks of the living, what harm is it never to have been made?

[181] Further, how was there first implanted in the gods a pattern for the begetting of things, yea, and the concept of man, so that they might know and see in their mind what they wished to do, or in what way was the power of the first-beginnings ever learnt, or what they could do when they shifted their order one with the other, if nature did not herself give a model of creation? For so many first-beginnings of things in many ways, driven on by blows from time everlasting until now, and moved by their own weight, have been wont to be borne on, and to unite in every way, and essay everything that they might create, meeting one with another, that it is no wonder if they have fallen also into such arrangements, and have passed into such movements, as those whereby this present sum of things is carried on, ever and again replenished.

[195] But even if I knew not what are the first-beginnings of things, yet this I would dare to affirm from the very workings of heaven, and to prove from many other things as well, that by no means has the nature of things been fashioned for us by divine grace: so great are the flaws with which it stands beset.

[200] First, of all that the huge expanse of heaven covers, half thereof mountains and forests of wild beasts have greedily seized; rocks possess it, and waste pools and the sea, which holds far apart the shores of the lands. Besides, two-thirds almost burning heat and the ceaseless fall of frost steal from mortals. Of all the field-land that remains, yet nature would by her force cover it up with thorns, were it not that the force of man resisted her, ever wont for his livelihood to groan over the strong mattock and to furrow the earth with the deep-pressed plough. But that by turning the fertile clods with the share, and subduing the soil of the earth we summon them to birth, of their own accord the crops could not spring up into the liquid air; and even now sometimes, when won by great toil things grow leafy throughout the land, and are all in flower, either the sun in heaven burns them with too much heat, or sudden rains destroy them and chill frosts, and the blasts of the winds harry them with headstrong hurricane.

[218] Moreover, why does nature foster and increase the awesome tribe of wild beasts to do harm to the race of man by land and sea? Why do the seasons of the year bring maladies? Why does death stalk abroad before her time?

[222] Then again, the child, like a sailor tossed ashore by the cruel waves, lies naked on the ground, dumb, lacking all help for life, when first nature has cast him forth by travail from his mother's womb into the coasts of light, and he fills the place with woful wailing, as is but right for one for whom it remains in life to pass through so much trouble. But the diverse flocks and herds grow up and the wild beasts, nor have they need of rattles, nor must there be spoken to any of them the fond and broken prattle of the fostering nurse, nor do they seek diverse garments to suit the season of heaven, nay, and they have no need of weapons or lofty walls, whereby to protect their own, since for all of them the earth itself brings forth all things bounteously, and nature, the quaint artificer of things.

[235] First of all, since the body of earth and moisture, and the light breath of the winds and burning heat, of which this sum of things is seen to be made up, are all created of a body that has birth and death, of such, too, must we think that the whole nature of the world is fashioned. For verily things whose parts and limbs we see to be of a body that has birth and of mortal shapes, themselves too we perceive always to have death and birth likewise. Wherefore, when we see the mighty members and parts of the world consumed away and brought to birth again, we may know that sky too likewise and earth had some time of first-beginning, and will suffer destruction.

[247] Herein, lest you should think that I have snatched at this proof for myself, because I have assumed that earth and fire are mortal things, nor have hesitated to say that moisture and breezes perish, and have maintained that they too are born again and increase, first of all, some part of earth, when baked by ceaseless suns, trodden by the force of many feet, gives off a mist and flying clouds of dust, which stormy winds scatter through all the air. Part too of its sods is summoned back to swamp by the rains, and streams graze and gnaw their banks. Moreover, whatever the earth nourishes and increases, is, in its own proportion, restored; and since without doubt the parent of all is seen herself to be the universal tomb of things, therefore you may see that the earth is eaten away, and again increases and grows.

[261] For the rest, that sea, streams, and springs are ever filling with new moisture, and that waters are ceaselessly oozing forth, there is no need of words to prove: the great downrush of waters on every side shows this forth. But the water which is foremost is ever taken away, and so it comes to pass that there is never overmuch moisture in the sum, partly because the strong winds as they sweep the seas, diminish them, and so does the sun in heaven, as he unravels their fabric with his rays, partly because it is sent hither and thither under every land. For the brine is strained through, and the substance of the moisture oozes back, and all streams together at the fountain-head of rivers, and thence comes back over the lands with freshened current, where the channel once cleft has brought down the waters in their liquid march.

[273] Next then I will speak of air, which changes in its whole body in countless ways each single hour. For always, whatever flows off from things, is all carried into the great sea of air; and unless in turn it were to give back bodies to things, and replenish them as they flow away, all things would by now have been dissolved and turned into air. Air then ceases not to be created from things, and to pass back into things, since it is sure that all things are constantly flowing away.

[281] Likewise that bounteous source of liquid light, the sun in heaven, ceaselessly floods the sky with fresh brightness, and at once supplies the place of light with new light. For that which is foremost of its brightness, ever perishes, on whatever spot it falls. That you may learn from this: that as soon as clouds have begun for an instant to pass beneath the sun, and, as it were, to break off the rays of light, straightway all the part of the rays beneath perishes, and the earth is overshadowed, wherever the clouds are carried; so that you may learn that things ever have need of fresh brilliance, and that the foremost shaft of light ever perishes, nor in any other way can things be seen in the sunlight, except that the very fountain-head of light gives supply for ever. Nay more, lights at night, which are on the earth, hanging lamps and oily torches, bright with their flashing fires and thick smoke, in like manner hasten by aid of their heat to supply new light; they are quick to flicker with their fires, yea quick, nor is the light, as it were, broken off, nor does it quit the spot. In such eager haste is its destruction hidden by the quick birth of flame from all the fires. So then we must think that sun, moon, and stars throw out their light from new supplies, rising again and again, and lose ever what is foremost of their flames; lest you should by chance believe that they are strong with a strength inviolable.

[306] Again, do you not behold stones too vanquished by time, high towers falling in ruins, and rocks crumbling away, shrines and images of the gods growing weary and worn, while the sacred presence cannot prolong the boundaries of fate nor struggle against the laws of nature? Again, do we not see the monuments of men fallen to bits, and inquiring moreover whether you believe that they grow old? And stones torn up from high mountains rushing headlong, unable to brook or bear the stern strength of a limited time? For indeed they would not be suddenly torn up and fall headlong, if from time everlasting they had held out against all the siege of age without breaking.

[318] Now once again gaze on this sky, which above and all around holds the whole earth in its embrace: if it begets all things out of itself, as some tell, and receives them again when they perish, it is made altogether of a body that has birth and death. For whatsoever increases and nourishes other things out of itself, must needs be lessened, and replenished when it receives things back.

[324] Moreover, if there was no birth and beginning of the earth and sky, and they were always from everlasting, why beyond the Theban war and the doom of Troy have not other poets sung of other happenings as well? whither have so many deeds of men so often passed away? why are they nowhere enshrined in glory in the everlasting memorials of fame? But indeed, I trow, our whole world is in its youth, and quite new is the nature of the firmament, nor long ago did it receive its first-beginnings. Wherefore even now certain arts are being perfected, even now are growing; much now has been added to ships, but a while ago musicians gave birth to tuneful harmonies. Again, this nature of things, this philosophy, is but lately discovered, and I myself was found the very first of all who could turn it into the speech of my country.

[338] But if by chance you think that all these same things were aforetime, but that the generations of men perished in burning heat, or that cities have fallen in some great upheaval of the world, or that from ceaseless rains ravaging rivers have issued over the lands and swallowed up cities, all the more must you be vanquished and confess that there will come to pass a perishing of earth and sky as well. For when things were assailed by such great maladies and dangers, then if a more fatal cause had pressed upon them, far and wide would they have spread their destruction and mighty ruin. Nor in any other way do we see one another to be mortal; except that we fall sick of the same diseases as those whom nature has sundered from life.

[351] Moreover, if ever things abide for everlasting, it must needs be either that, because they are of solid body, they beat back assaults, nor suffer anything to come within them, which might unloose the close-locked parts within, such as are the bodies of matter, whose nature we have declared before; or that they are able to continue through all time, because they are exempt from blows, as is the void, which abides untouched nor suffers a whit from assault; or else because there is no supply of room all around, into which things might part asunder and be broken up—even as the sum of sums is eternal—nor is there any room without into which they may leap apart, nor are there bodies which might fall upon them and break them up with stout blow. But neither, as I have shown, is the nature of the world endowed with solid body, since there is void mingled in things; nor yet is it as the void, nor indeed are bodies lacking, which might by chance gather together out of infinite space and overwhelm this sum of things with headstrong hurricane, or bear down on it some other form of dangerous destruction; nor again is there nature of room or space in the deep wanting, into which the walls of the world might be scattered forth; or else they may be pounded and perish by any other force you will. The gate of death then is not shut on sky or sun or earth or the deep waters of the sea, but it stands open facing them with huge vast gaping maw. Wherefore, again, you must needs confess that these same things have a birth; for indeed, things that are of mortal body could not from limitless time up till now have been able to set at defiance the stern strength of immeasurable age.

[380] Again, since the mighty members of the world so furiously fight one against the other, stirred up in most unhallowed warfare, do you not see that some end may be set to their long contest? Either when the sun and every kind of heat have drunk up all the moisture and won the day: which they are struggling to do, but as yet they have not accomplished their effort: so great a supply do the rivers bring and threaten to go beyond their bounds, and deluge all things from out the deep abyss of ocean; all in vain, since the winds as they sweep the seas, diminish them, and so does the sun in heaven, as he unravels their fabric with his rays, and they boast that they can dry up all things, ere moisture can reach the end of its task. So vast a war do they breathe out in equal contest, as they struggle and strive one with another for mighty issues; yet once in this fight fire gained the upper hand, and once, as the story goes, moisture reigned supreme on the plains.

[396] For fire won its way and burnt up many things, all-devouring, when the resistless might of the horses of the sun went astray and carried Phaethon amain through the whole heavens and over all lands. But, thereupon, the almighty father, thrilled with keen anger, with sudden stroke of his thunder dashed high-souled Phaethon from his chariot to earth, and the sun, meeting him as he fell, caught the everlasting lamp of the world, and tamed the scattered steeds, and yoked them trembling, and so guiding them along their own path,

replenished all things; so forsooth sang the old poets of the Greeks: but it is exceeding far removed from true reasoning. For fire can only prevail when more bodies of its substance have risen up out of infinite space; and then its strength fails, vanquished in some way, or else things perish, burnt up by its fiery breath.

[411] Moisture likewise, once gathered together and began to prevail, as the story goes, when it overwhelmed living men with its waves. Thereafter, when its force was by some means turned aside and went its way, even all that had gathered together from infinite space, the rains ceased, and the strength of the rivers was brought low.

[416] But by what means that gathering together of matter established earth and sky and the depths of ocean, and the courses of sun and moon, I will set forth, in order. For in very truth not by design did the first-beginnings of things place themselves each in their order with foreseeing mind, nor indeed did they make compact what movements each should start; but because many first-beginnings of things in many ways, driven on by blows from time everlasting until now, and moved by their own weight, have been wont to be borne on, and to unite in every way and essay everything that they might create, meeting one with another, therefore it comes to pass that scattered abroad through a great age, as they try meetings and motions of every kind, at last those come together, which, suddenly cast together, become often the beginnings of great things, of earth, sea and sky, and the race of living things.

[432] Then, when things were so, neither could the sun's orb be seen, flying on high with its bounteous light, nor the stars of the great world, nor sea nor sky, nay nor earth nor air, nor anything at all like to the things we know, but only a sort of fresh-formed storm, a mass gathered together of first-beginnings of every kind, whose discord was waging war and confounding interspaces, paths, inter-lacings, weights, blows, meetings, and motions, because owing to their unlike forms and diverse shapes, all things were unable to remain in union, as they do now, and to give and receive harmonious motions. From this mass parts began to fly off hither and thither, and like things to unite with like, and so to unfold a world, and to sunder its members and dispose its great parts, that is, to mark off the high heaven from the earth, and the sea by itself, so that it might spread out with its moisture kept apart, and likewise the fires of the sky by themselves, unmixed and kept apart.

[449] Yea, verily, first of all the several bodies of earth, because they were heavy and interlaced, met together in the middle, and all took up the lowest places; and the more they met and interlaced, the more did they squeeze out those which were to make sea, stars, sun, and moon, and the walls of the great world. For all these are of smoother and rounder seeds, and of much smaller particles than earth. And so, bursting out from the quarter of the earth through its loose-knit openings, first of all the fiery ether rose up and, being so light, carried off with it many fires, in not far different wise than often we see now, when first the golden morning light of the radiant sun reddens over the grass bejewelled with dew, and the pools and ever-running streams give off a mist, yea, even as the earth from time to time is seen to steam: and when all these are gathered together as they move upwards, clouds with body now formed weave a web beneath the sky on high. Thus then at that time the light and spreading ether, with body now formed, was set all around and curved on every side, and spreading wide towards every part on all sides, thus fenced in all else in its greedy embrace.

[471] There followed then the beginnings of sun and moon, whose spheres turn in air midway betwixt earth and ether; for neither earth nor the great ether claimed them for itself, because they were neither heavy enough to sink and settle down, nor light enough to be able to glide along the topmost coasts, yet they are so set between the two that they can move along their living bodies, and are parts of the whole world; even as in our bodies some limbs may abide in their place, while yet there are others moving.

[480] So when these things were withdrawn, at once the earth sank down, where now the vast blue belt of ocean stretches, and flooded the furrows with salt surge. And day by day, the more the tide of ether and the rays of the sun with constant blows along its outer edges constrained the earth into closer texture, so that thus smitten it condensed and drew together round its centre, the more did the salt sweat, squeezed out from its body, go to increase the sea and the swimming plains, as it trickled forth; yea, and the more did those many bodies of heat and air slip forth and fly abroad, and far away from earth condense the high glowing

quarters of the sky. Plains sank down, lofty mountains grew in height; for indeed the rocks could not settle down, nor could all parts subside equally in the same degree.

[495] So then the weight of earth, with body now formed, sank to its place, and, as it were, all the slime of the world slid heavily to the bottom, and sank right down like dregs; then the sea and then the air and then the fiery ether itself were all left unmixed with their liquid bodies; they are lighter each than the next beneath, and ether, most liquid and lightest of all, floats above the breezes of air, nor does it mingle its liquid body with the boisterous breezes of air; it suffers all our air below to be churned by headstrong hurricanes, it suffers it to brawl with shifting storms, but itself bears on its fires as it glides in changeless advance. For that the ether can follow on quietly and with one constant effort, the Pontos proves, the sea which flows on with changeless tide, preserving ever the one constant rhythm of its gliding.

[509] Now let us sing what is the cause of the motions of the stars. First of all, if the great globe of the sky turns round, we must say that the air presses on the pole at either end, and holds it outside and closes it in at both ends; and that then another current of air flows above, straining on to the same goal, towards which the twinkling stars of the everlasting world roll on; or else that there is another current beneath, to drive up the sphere reversely, as we see streams moving round wheels with their scoops.

[517] It may be also that the whole sky can abide in its place, while yet the shining signs are carried on; either because swift currents of ether are shut within them, and seeking a way out are turned round and round, and so roll on the fires this way and that through the nightly quarters of the sky; or else an air streaming from some other quarter without turns and drives the fires; or else they can themselves creep on, whither its own food invites and summons each as they move on, feeding their flaming bodies everywhere throughout the sky.

[526] For it is hard to declare for certain which of these causes it is in this world; but what can happen and does happen through the universe in the diverse worlds, fashioned on diverse plans, that is what I teach, and go on to set forth many causes for the motions of the stars, which may exist throughout the universe; and of these it must needs be one which in our world too gives strength to the motions of the heavenly signs; but to affirm which of them it is, is in no wise the task of one treading forward step by step.

[534] Now that the earth may rest quiet in the mid region of the world, it is natural that its mass should gradually thin out and grow less, and that it should have another nature underneath from the beginning of its being, linked and closely bound in one with those airy parts of the world amid which it has its place and life. For this cause it is no burden, nor does it weigh down the air; even as for every man his own limbs are no weight, nor is the head a burden to the neck, nay nor do we feel that the whole weight of the body is resting on the feet; but all weights which come from without and are laid upon us, hurt us, though often they are many times smaller. Of such great matter is it, what is the power of each thing. So then the earth is not suddenly brought in as some alien body, nor cast from elsewhere on alien air, but it has been begotten along with it from the first beginning of the world, a determined part of it, as our limbs are seen to be of us.

[550] Moreover, the earth, when shaken suddenly by violent thunder, shakes with its motion all that is above it; which it could not by any means do, were it not bound up with the airy parts of the world and with the sky. For they cling one to the other with common roots, linked and closely bound in one from the beginning of their being.

[556] Do you not see too how great is the weight of our body, which the force of the soul, though exceeding fine, supports, just because it is so nearly linked and closely bound in one with it? And again, what can lift the body in a nimble leap save the force of the soul, which steers the limbs? Do you not see now how great can be the power of a fine nature, when it is linked with a heavy body, even as the air is linked with earth, and the force of the mind with us?

[564] Nor can the sun's blazing wheel be much greater or less, than it is seen to be by our senses. For from whatsoever distances fires can throw us their light and breathe their warm heat upon our limbs, they lose nothing of the body of their flames because of the interspaces, their fire is no whit shrunken to the sight. Even

so, since the heat of the sun and the light he sheds, arrive at our senses and cheer the spots on which they fall, the form and bulk of the sun as well must needs be seen truly from earth, so that you could alter it almost nothing to greater or less.

[575] The moon, too, whether she illumines places with a borrowed light as she moves along, or throws out her own rays from her own body, however that may be, moves on with a shape no whit greater than seems that shape, with which we perceive her with our eyes. For all things which we behold far sundered from us through much air, are seen to grow confused in shape, ere their outline is lessened. Wherefore it must needs be that the moon, inasmuch as she shows a clear-marked shape and an outline well defined, is seen by us from earth in the heights, just as she is, clear-cut all along her outer edges, and just the size she is.

[585] Lastly, all the fires of heaven that you see from earth; inasmuch as all fires that we see on earth, so long as their twinkling light is clear, so long as their blaze is perceived, are seen to change their size only in some very small degree from time to time to greater or less, the further they are away: so we may know that the heavenly fires can only be a very minute degree smaller or larger by a little tiny piece.

[592] This, too, is not wonderful, how the sun, small as it is, can send out so great light, to fill seas and all lands and sky with its flood, and to bathe all things in its warm heat. For it may be that from this spot the one well of light for the whole world is opened up and teems with bounteous stream, and shoots out its rays, because the particles of heat from all the world gather together on every side, and their meeting mass flows together in such wise, that here from a single fountain-head their blazing light streams forth. Do you not see too how widely a tiny spring of water sometimes moistens the fields, and floods out over the plains?

[604] Or again, it may be that from the sun's fire, though it be not great, blazing light seizes on the air with its burning heat, if by chance there is air ready to hand and rightly suited to be kindled when smitten by tiny rays of heat; even as sometimes we see crops or straw caught in widespread fire from one single spark.

[610] Perhaps, too, the sun, shining on high with its rosy torch, has at his command much fire with hidden heat all around him, fire which is never marked by any radiance, so that it is only laden with heat and increases the stroke of the sun's rays.

[614] Nor is there any single and straightforward account of the sun, to show how from the summer regions he draws near the winter turning-point of Capricorn, and how turning back thence, he betakes himself to the solstice-goal of Cancer; and how the moon is seen in single months to traverse that course, on which the sun spends the period of a year as he runs. There is not, I say, any single cause assigned for these things.

[621] For, first and foremost, it is clear that it may come to pass, as the judgement of the holy man, Democritus, sets before us, that the nearer the several stars are to earth, the less can they be borne on with the whirl of heaven. For its swift keen strength passes away and is lessened beneath, and so little by little the sun is left behind with the hindmost signs, because it is much lower than the burning signs. And even more the moon: the lower her course, the further it is from the sky and nearer to earth, the less can she strain on her course level with the signs. Moreover the weaker the whirl with which she is borne along, being lower than the sun, the more do all the signs catch her up all around and pass her. Therefore, it comes to pass that she seems to turn back more speedily to each several sign, because the signs come back to her.

[637] It may be too that from quarters of the world athwart his path two airs may stream alternately, each at a fixed season, one such as to push the sun away from the summer signs right to the winter turning-places and their icy frost, and the other to hurl him back from the icy shades of cold right to the heat-laden quarters and the burning signs. And in like manner must we think that the moon and those stars which roll through the great years in great orbits, can be moved by airs from the opposite quarters in turn. Do you not see how by contrary winds the lower clouds too are moved in directions contrary to those above? Why should those stars be less able to be borne on by currents contrary one to the other through the great orbits in the heaven?

[650] But night shrouds the earth in thick darkness, either when after his long journey the sun has trodden the farthest parts of heaven, and fainting has breathed out his fires shaken by the journey and made weak by much air, or because the same force, which carried on his orb above the earth, constrains him to turn his

course back beneath the earth.

[656] Likewise at a fixed time Matuta sends abroad the rosy dawn through the coasts of heaven, and spreads the light, either because the same sun, returning again beneath the earth, seizes the sky in advance with his rays, fain to kindle it, or because the fires come together and many seeds of heat are wont to stream together at a fixed time, which each day cause the light of a new sun to come to birth. Even so story tells that from the high mountains of Ida scattered fires are seen as the light rises, and then they gather as if into a single ball, and make up the orb.

[666] Nor again ought this to be cause of wonder herein, that these seeds of fire can stream together at so fixed a time and renew the brightness of the sun. For we see many events, which come to pass at a fixed time in all things. Trees blossom at a fixed time, and at a fixed time lose their flower. Even so at a fixed time age bids the teeth fall, and the hairless youth grow hairy with soft down and let a soft beard flow alike from either cheek. Lastly, thunder, snow, rains, clouds, winds come to pass at seasons of the year more or less fixed. For since the first-beginnings of causes were ever thus and things have so fallen out from the first outset of the world, one after the other they come round even now in fixed order.

[680] And likewise it may be that days grow longer and nights wane, and again daylight grows less, when nights take increase; either because the same sun, as he fulfils his course in unequal arcs below the earth and above, parts the coasts of heaven, and divides his circuit into unequal portions; and whatever he has taken away from the one part, so much the more he replaces, as he goes round, in the part opposite it, until he arrives at that sign in the sky, where the node of the year makes the shades of night equal to the daylight. For in the mid-course of the blast of the north wind and of the south wind, the sky holds his turning-points apart at a distance then made equal, on account of the position of the whole starry orbit, in which the sun covers the space of a year in his winding course, as he lights earth and heaven with his slanting rays: as is shown by the plans of those who have marked out all the quarters of the sky, adorned with their signs in due order.

[696] Or else, because the air is thicker in certain regions, and therefore the trembling ray of his fire is delayed beneath the earth, nor can it easily pierce through and burst out to its rising. Therefore in winter time the long nights lag on, until the radiant ensign of day comes forth.

[701] Or else again, because in the same way in alternate parts of the year the fires, which cause the sun to rise from a fixed quarter, are wont to stream together now more slowly, now more quickly, therefore it is that those seem to speak the truth \[who say that a new sun is born every day].

[705] The moon may shine when struck by the sun's rays, and day by day turn that light more straightly to our sight, the more she retires from the sun's orb, until opposite him she has glowed with quite full light and, as she rises, towering on high, has seen his setting; then little by little she must needs retire back again, and, as it were, hide her light, the nearer she glides now to the sun's fire from the opposite quarter through the orbit of the signs; as those have it, who picture that the moon is like a ball, and keeps to the path of her course below the sun.

[715] There is also a way by which she can roll on with her own light, and yet show changing phases of brightness. For there may be another body, which is borne on and glides together with her, in every way obstructing and obscuring her; yet it cannot be seen, because it is borne on without light. Or she may turn round, just like, if it so chance, the sphere of a ball, tinged over half its surface with gleaming light, and so by turning round the sphere produces changing phases, until she turns to our sight and open eyes that side, whichever it be, that is endowed with fires; and then little by little she twists back again and carries away from us the light-giving part of the round mass of the ball; as the Babylonian teaching of the Chaldaeans, denying the science of the astronomers, essays to prove in opposition; just as if what each of them fights for may not be the truth, or there were any cause why you should venture to adopt the one less than the other.

[731] Or again, why a fresh moon could not be created every day with fixed succession of phases and fixed shapes, so that each several day the moon created would pass away, and another be supplied in its room

and place, it is difficult to teach by reasoning or prove by words, since so many things can be created in fixed order. Spring goes on her way and Venus, and before them treads Venus's winged harbinger; and following close on the steps of Zephyrus, mother Flora strews and fills all the way before them with glorious colours and scents. Next after follows parching heat, and as companion at her side dusty Ceres and the etesian blasts of the north winds. Then autumn advances, and step by step with her Euhus Euan. Then follow the other seasons and their winds, Voltornus, thundering on high, and the south wind, whose strength is the lightning. Last of all the year's end brings snow, and winter renews numbing frost; it is followed by cold, with chattering teeth. Wherefore it is less wonderful if the moon is born at a fixed time, and again at a fixed time is blotted out, since so many things can come to pass at fixed times.

[751] Likewise also the eclipses of the sun and the hidings of the moon, you must think may be brought about by several causes. For why should the moon be able to shut out the earth from the sun's light, and thrust her head high before him in the line of earth, throwing her dark orb before his glorious rays; and at the same time it should not be thought that another body could do this, which glides on ever without light. And besides, why should not the sun be able at a fixed time to faint and lose his fires, and again renew his light, when, in his journey through the air, he has passed by places hostile to his flames, which cause his fires to be put out and perish?

[762] And why should the earth be able in turn to rob the moon of light, and herself on high to keep the sun hidden beneath, while the moon in her monthly journey glides through the sharp-drawn shadows of the cone; and at the same time another body be unable to run beneath the moon or glide above the sun's orb, to break off his rays and streaming light? And indeed, if the moon shines with her own light, why should she not be able to grow faint in a certain region of the world, while she passes out through spots unfriendly to her own light?

[772] For the rest, since I have unfolded in what manner each thing could take place throughout the blue vault of the great world, so that we might learn what force and what cause started the diverse courses of the sun, and the journeyings of the moon, and in what way they might go hiding with their light obscured, and shroud the unexpected earth in darkness, when, as it were, they wink and once again open their eye and look upon all places shining with their clear rays; now I return to the youth of the world, and the soft fields of earth, and what first with new power of creation they resolved to raise into the coasts of light and entrust to the gusty winds.

[783] First of all the earth gave birth to the tribes of herbage and bright verdure all around the hills and over all the plains, the flowering fields gleamed in their green hue, and thereafter the diverse trees were started with loose rein on their great race of growing through the air. Even as down and hair and bristles are first formed on the limbs of four-footed beasts and the body of fowls strong of wing, so then the newborn earth raised up herbage and shrubs first, and thereafter produced the races of mortal things, many races born in many ways by diverse means. For neither can living animals have fallen from the sky nor the beasts of earth have issued forth from the salt pools.

[795] It remains that rightly has the earth won the name of mother, since out of earth all things are produced. And even now many animals spring forth from the earth, formed by the rains and the warm heat of the sun; wherefore we may wonder the less, if then more animals and greater were born, reaching their full growth when earth and air were fresh. First of all the tribe of winged fowls and the diverse birds left their eggs, hatched out in the spring season, as now in the summer the grasshoppers of their own will leave their smooth shells, seeking life and livelihood. Then it was that the earth first gave birth to the race of mortal things. For much heat and moisture abounded then in the fields; thereby, wherever a suitable spot or place was afforded, there grew up wombs, clinging to the earth by their roots; and when in the fullness of time the age of the little ones, fleeing moisture and eager for air, had opened them, nature would turn to that place the pores in the earth and constrain them to give forth from their opened veins a sap, most like to milk; even as now every woman, when she has brought forth, is filled with sweet milk, because all the current of her nourishment is turned towards her paps. The earth furnished food for the young, the warmth raiment, the grass a couch rich in much soft down. But the youth of the world called not into being hard frosts nor exceeding heat nor winds of mighty violence: for all things grow and come to their strength in like degrees.

[821] Wherefore, again and again, rightly has the earth won, rightly does she keep the name of mother, since she herself formed the race of men, and almost at a fixed time brought forth every animal which ranges madly everywhere on the mighty mountains, and with them the fowls of the air with their diverse forms.

[826] But because she must needs come to some end of child-bearing, she ceased, like a woman worn with the lapse of age. For time changes the nature of the whole world, and one state after another must needs overtake all things, nor does anything abide like itself: all things change their abode, nature alters all things and constrains them to turn. For one thing rots away and grows faint and feeble with age, thereon another grows up and issues from its place of scorn. So then time changes the nature of the whole world, and one state after another overtakes the earth, so that it cannot bear what it did, but can bear what it did not of old.

[837] And many monsters too earth then essayed to create, born with strange faces and strange limbs, the man-woman, between the two, yet not either, sundered from both sexes, some things bereft of feet, or in turn robbed of hands, things too found dumb without mouths, or blind without eyes, or locked through the whole body by the clinging of the limbs, so that they could not do anything or move towards any side or avoid calamity or take what they needed. All other monsters and prodigies of this sort she would create; all in vain, since nature forbade their increase, nor could they reach the coveted bloom of age nor find food nor join in the work of Venus. For we see that many happenings must be united for things, that they may be able to beget and propagate their races; first that they may have food, and then a way whereby birth-giving seeds may pass through their frames, and issue from their slackened limbs; and that woman may be joined with man, they must needs each have means whereby they can interchange mutual joys.

[855] And it must needs be that many races of living things then perished and could not beget and propagate their offspring. For whatever animals you see feeding on the breath of life, either their craft or bravery, aye or their swiftness has protected and preserved their kind from the beginning of their being. And many there are, which by their usefulness are commended to us, and so abide, trusted to our tutelage.

[862] First of all the fierce race of lions, that savage stock, their bravery has protected, foxes their cunning, and deer their fleet foot. But the lightly-sleeping minds of dogs with their loyal heart, and all the race which is born of the seed of beasts of burden, and withal the fleecy flocks and the horned herds, are all trusted to the tutelage of men, Memmius. For eagerly did they flee the wild beasts and ensue peace and bounteous fodder gained without toil of theirs, which we grant them as a reward because of their usefulness.

[871] But those to whom nature granted none of these things, neither that they might live on by themselves of their own might, nor do us any useful service, for which we might suffer their kind to feed and be kept safe under our defence, you may know that these fell a prey and spoil to others, all entangled in the fateful trammels of their own being, until nature brought their kind to destruction.

[875] But neither were there Centaurs, nor at any time can there be animals of twofold nature and double body, put together of limbs of alien birth, so that the power and strength of each, derived from this parent and that, could be equal. That we may learn, however dull be our understanding, from this.

[883] First of all, when three years have come round, the horse is in the prime of vigour, but the child by no means so; for often even now in his sleep he will clutch for the milky paps of his mother's breasts. Afterwards, when the stout strength and limbs of horses fail through old age and droop, as life flees from them, then at last youth sets in in the prime of boyish years, and clothes the cheeks with soft down; that you may not by chance believe that Centaurs can be created or exist, formed of a man and the load-laden breed of horses, or Scyllas either, with bodies half of sea-monsters, girt about with ravening dogs, or any other beasts of their kind, whose limbs we see cannot agree one with another; for they neither reach their prime together nor gain the full strength of their bodies nor let it fall away in old age, nor are they fired with a like love, nor do they agree in a single character, nor are the same things pleasant to them throughout their frame. Indeed, we may see the bearded goats often grow fat on hemlock, which to man is rank poison.

[901] Since moreover flame is wont to scorch and burn the tawny bodies of lions just as much as every kind of flesh and blood that exists on the earth, how could it have come to pass that the Chimaera, one in her

threefold body, in front a lion, in the rear a dragon, in the middle, as her name shows, a goat, should breathe out at her mouth fierce flame from her body?

[907] Wherefore again, he who feigns that when the earth was young and the sky new-born, such animals could have been begotten, trusting only in this one empty plea of the world's youth, may blurt out many things in like manner from his lips; he may say that then streams of gold flowed everywhere over the lands, and that trees were wont to blossom with jewels, or that a man was born with such expanse of limbs, that he could plant his footsteps right across the deep seas, and with his hands twist the whole sky about him. For because there were in the earth many seeds of things at the time when first the land brought forth animals, yet that is no proof that beasts of mingled breed could have been born, or the limbs of living creatures put together in one; because the races of herbage and the crops and fruitful trees, which even now spring forth abundantly from the earth, yet cannot be created intertwined one with another, but each of these things comes forth after its own manner, and all preserve their separate marks by a fixed law of nature.

[925] But the race of man was much hardier then in the fields, as was seemly for a race born of the hard earth: it was built up on larger and more solid bones within, fastened with strong sinews traversing the flesh; not easily to be harmed by heat or cold or strange food or any taint of the body. And during many lustres of the sun rolling through the sky they prolonged their lives after the roving manner of wild beasts. Nor was there any sturdy steerer of the bent plough, nor knew any one how to work the fields with iron, or to plant young shoots in the earth, or cut down the old branches off high trees with knives. What sun and rains had brought to birth, what earth had created unasked, such gift was enough to appease their hearts. Among oaks laden with acorns they would refresh their bodies for the most part; and the arbutu-berries, which now you see ripening in wintertime with scarlet hue, the earth bore then in abundance, yea and larger. And besides these the flowering youth of the world then bare much other rough sustenance, enough and to spare for miserable mortals.

[945] But to slake their thirst streams and springs summoned them, even as now the downrush of water from the great mountains calls clear far and wide to the thirsting tribes of wild beasts. Or again they dwelt in the woodland haunts of the nymphs, which they had learnt in their wanderings, from which they knew that gliding streams of water washed the wet rocks with bounteous flood, yea washed the wet rocks, as they dripped down over the green moss, and here and there welled up and burst forth over the level plain.

[953] Nor as yet did they know how to serve their purposes with fire, nor to use skins and clothe their body in the spoils of wild beasts, but dwelt in woods and the caves on mountains and forests, and amid brushwood would hide their rough limbs, when constrained to shun the shock of winds and the rain-showers.

[958] Nor could they look to the common weal, nor had they knowledge to make mutual use of any customs or laws. Whatever booty chance had offered to each, he bore it off; for each was taught at his own will to live and thrive for himself alone.

[962] And Venus would unite lovers in the woods; for each woman was wooed either by mutual passion, or by the man's fierce force and reckless lust, or by a price, acorns and arbutu-berries or choice pears.

[966] And trusting in their strange strength of hand and foot they would hunt the woodland tribes of wild beasts with stones to hurl or clubs of huge weight; many they would vanquish, a few they would avoid in hiding;

[970] And like bristly boars these woodland men would lay their limbs naked on the ground, when overtaken by night time, wrapping themselves up around with leaves and foliage. Nor did they look for daylight and the sun with loud wailing, wandering fearful through the fields in the darkness of night, but silent and buried in sleep waited mindful, until the sun with rosy torch should bring the light into the sky. For, because they had been wont ever from childhood to behold darkness and light begotten, turn by turn, it could not come to pass that they should ever wonder, or feel mistrust lest the light of the sun should be withdrawn for ever, and never-ending night possess the earth. But much greater was another care, inasmuch as the tribes of wild beasts often made rest dangerous for wretched men. Driven from their home they would flee from their rocky

roof at the coming of a foaming boar or a mighty lion, and in the dead of night in terror they would yield their couches spread with leaves to their cruel guests.

[988] Nor then much more than now would the races of men leave the sweet light of life with lamentation. For then more often would some one of them be caught and furnish living food to the wild beasts, devoured by their teeth, and would fill woods and mountains and forests with his groaning, as he looked on his living flesh being buried in a living tomb. And those whom flight had saved with mangled body, thereafter, holding trembling hands over their noisome sores, would summon Orcus with terrible cries, until savage griping pains had robbed them of life, all helpless and knowing not what wounds wanted. Yet never were many thousands of men led beneath the standards and done to death in a single day, nor did the stormy waters of ocean dash ships and men upon the rocks. Then rashly, idly, in vain would the sea often arise and rage, and lightly lay aside its empty threatenings, nor could the treacherous wiles of the windless waves lure any man to destruction with smiling waters; then the wanton art of sailing lay as yet unknown. Then, too, want of food would give over their drooping limbs to death, now on the other hand 'tis surfeit of good things brings them low. They all unwitting would often pour out poison for themselves, now with more skill they give it to others.

[1011] Then after they got themselves huts and skins and fire, and woman yoked with man retired to a single [home, and the laws of marriage] were learnt, and they saw children sprung from them, then first the race of man began to soften. For fire brought it about that their chilly limbs could not now so well bear cold under the roof of heaven, and Venus lessened their strength, and children, by their winning ways, easily broke down the haughty will of their parents. Then, too, neighbours began eagerly to form friendship one with another, not to hurt or be harmed, and they commended to mercy children and the race of women, when with cries and gestures they taught by broken words that 'tis right for all men to have pity on the weak. Yet not in all ways could unity be begotten, but a good part, the larger part, would keep their compacts loyally; or else the human race would even then have been all destroyed, nor could breeding have prolonged the generations until now.

[1028] But the diverse sounds of the tongue nature constrained men to utter, and use shaped the names of things, in a manner not far other than the very speechlessness of their tongue is seen to lead children on to gesture, when it makes them point out with the finger the things that are before their eyes. For every one feels to what purpose he can use his own powers. Before the horns of a calf appear and sprout from his forehead, he butts with them when angry, and pushes passionately. But the whelps of panthers and lion-cubs already fight with claws and feet and biting, when their teeth and claws are scarce yet formed. Further, we see all the tribe of winged fowls trusting to their wings, and seeking an unsteady aid from their pinions.

[1041] Again, to think that any one then parcelled out names to things, and that from him men learnt their first words, is mere folly. For why should he be able to mark off all things by words, and to utter the diverse sounds of the tongue, and at the same time others be thought unable to do this? Moreover, if others too had not used words to one another, whence was implanted in him the concept of their use; whence was he given the first power to know and see in his mind what he wanted to do? Likewise one man could not avail to constrain many, and vanquish them to his will, that they should be willing to learn all his names for things; nor indeed is it easy in any way to teach and persuade the deaf what it is needful to do; for they would not endure it, nor in any way suffer the sounds of words unheard before to batter on their ears any more to no purpose.

[1056] Lastly, what is there so marvelous in this, if the human race, with strong voice and tongue, should mark off things with diverse sounds for diverse feelings? When the dumb cattle, yea and the races of wild beasts are wont to give forth diverse unlike sounds, when they are in fear or pain, or again when their joys grow strong. Yea verily, this we may learn from things clear to see.

[1063] When the large loose lips of Molossian dogs start to snarl in anger, baring their hard teeth, thus drawn back in rage, they threaten with a noise far other than when they bark and fill all around with their clamor. Yet when they essay fondly to lick their cubs with their tongue, or when they toss them with their feet, and making for them with open mouth, feign gently to swallow them, checking their closing teeth, they fondle them with growling voice in a way far other than when left alone in the house they bay, or when whining they shrink from a beating with cringing body.

[1073] Again, is not neighing seen to differ likewise, when a young stallion in the flower of his years rages among the mares, pricked by the spur of winged love, and from spreading nostrils snorts for the fray, and when, it may be, at other times he whinnies with trembling limbs?

[1078] Lastly, the tribe of winged fowls and the diverse birds, hawks and ospreys and gulls amid the sea-waves, seeking in the salt waters for life and livelihood, utter at other times cries far other than when they are struggling for their food and fighting for their prey. And some of them change their harsh notes with the weather, as the long-lived tribes of crows and flocks of rooks, when they are said to cry for water and rains, and anon to summon the winds and breezes.

[1087] And so, if diverse feelings constrain animals, though they are dumb, to utter diverse sounds, how much more likely is it that mortals should then have been able to mark off things unlike with one sound and another.

[1091] Herein, lest by chance you should ask a silent question, it was the lightning that first of all brought fire to earth for mortals, and from it all the heat of flames is spread abroad. For we see many things flare up, kindled with flames from heaven, when a stroke from the sky has brought the gift of heat. Yet again, when a branching tree is lashed by the winds and sways to and fro, reeling and pressing on the branches of another tree, fire is struck out by the strong force of the rubbing, anon the fiery heat of flame sparkles out, while branches and trunks rub each against the other. Either of these happenings may have given fire to mortals. And then the sun taught them to cook food and soften it by the heat of flame, since they saw many things among the fields grow mellow, vanquished by the lashing of his rays and by the heat.

[1105] And day by day those who excelled in understanding and were strong in mind showed them more and more how to change their former life and livelihood for new habits and for fire. Kings began to build cities and to found a citadel, to be for themselves a strong-hold and a refuge; and they parceled out and gave flocks and fields to each man for his beauty or his strength or understanding; for beauty was then of much avail, and strength stood high. Thereafter property was invented and gold found, which easily robbed the strong and beautiful of honor; for, for the most part, however strong men are born, however beautiful their body, they follow the lead of the richer man.

[1117] Yet if a man would steer his life by true reasoning, it is great riches to a man to live thriftily with calm mind; for never can he lack for a little. But men wished to be famous and powerful, that their fortune might rest on a sure foundation, and they might in wealth lead a peaceful life; all in vain, since struggling to rise to the heights of honor, they made the path of their journey beset with danger, and yet from the top, like lightning, envy smites them and casts them down anon in scorn to a noisome Hell; since by envy, as by lightning, the topmost heights are most often set ablaze, and all places that rise high above others; so that it is far better to obey in peace than to long to rule the world with kingly power and to sway kingdoms. Wherefore let them sweat out their life-blood, worn away to no purpose, battling their way along the narrow path of ambition; inasmuch as their wisdom is but from the lips of others, and they seek things rather through hearsay than from their own feelings, and that is of no more avail now nor shall be hereafter than it was of old.

[1136] And so the kings were put to death and the ancient majesty of thrones and proud sceptres was overthrown and lay in ruins, and the glorious emblem on the head of kings was stained with blood, and beneath the feet of the mob mourned the loss of its high honour; for once dreaded overmuch, eagerly now it is trampled. And so things would pass to the utmost dregs of disorder, when every man sought for himself the power and the headship. Then some of them taught men to appoint magistrates and establish laws that they might consent to obey ordinances. For the race of men, worn out with leading a life of violence, lay faint from its feuds; wherefore the more easily of its own will it gave in to ordinances and the close mesh of laws. For since each man set out to avenge himself more fiercely in his passion than is now suffered by equal laws, for this cause men were weary of leading a life of violence.

[1151] Thence fear of punishment taints the prizes of life. For violence and hurt tangle every man in their toils, and for the most part fall on the head of him, from whom they had their rise, nor is it easy for one who

by his act breaks the common pact of peace to lead a calm and quiet life. For though he be unnoticed of the race of gods and men, yet he must needs mistrust that his secret will be kept for ever; nay indeed, many by speaking in their sleep or raving in fever have often, so 'tis said, betrayed themselves, and brought to light misdeeds long hidden.

[1161] Next, what cause spread abroad the divine powers of the gods among great nations, and filled cities with altars, and taught men to undertake sacred rites at yearly festivals, rites which are honoured to-day in great empires and at great places; whence even now there is implanted in mortals a shuddering dread, which raises new shrines of the gods over all the world, and constrains men to throng them on the holy days; of all this it is not hard to give account in words.

[1169] For indeed already the races of mortals used to perceive the glorious shapes of the gods with waking mind, and all the more in sleep with wondrous bulk of body. To these then they would assign sense because they were seen to move their limbs, and to utter haughty sounds befitting their noble mien and ample strength. And they gave them everlasting life because their images came in constant stream and the form remained unchanged, and indeed above all because they thought that those endowed with such strength could not readily be vanquished by any force. They thought that they far excelled in happiness, because the fear of death never harassed any of them, and at the same time because in sleep they saw them accomplish many marvels, yet themselves not undergo any toil.

[1183] Moreover, they beheld the workings of the sky in due order, and the diverse seasons of the year come round, nor could they learn by what causes that was brought about. And so they made it their refuge to lay all to the charge of the gods, and to suppose that all was guided by their will. And they placed the abodes and quarters of the gods in the sky, because through the sky night and the moon are seen to roll on their way, moon, day and night, and the stern signs of night, and the torches of heaven that rove through the night, and the flying flames, clouds, sunlight, rain, snow, winds, lightning, hail, and the rapid roar and mighty murmurings of heaven's threats.

[1194] Ah! unhappy race of men, when it has assigned such acts to the gods and joined therewith bitter anger! what groaning did they then beget for themselves, what sores for us, what tears for our children to come! Nor is it piety at all to be seen often with veiled head turning towards a stone, and to draw near to every altar, no, nor to lie prostrate on the ground with outstretched palms before the shrines of the gods, nor to sprinkle the altars with the streaming blood of beasts, nor to link vow to vow, but rather to be able to contemplate all things with a mind at rest.

[1204] For indeed when we look up at the heavenly quarters of the great world, and the firm-set ether above the twinkling stars, and it comes to our mind to think of the journeyings of sun and moon, then into our hearts weighed down with other ills, this misgiving too begins to raise up its wakened head, that there may be perchance some immeasurable power of the gods over us, which whirls on the bright stars in their diverse motions. For lack of reasoning assails our mind with doubt, whether there was any creation and beginning of the world, and again whether there is an end, until which the walls of the world may be able to endure this weariness of restless motion, or whether gifted by the gods' will with an everlasting being they may be able to glide on down the everlasting groove of time, and set at naught the mighty strength of measureless time.

[1218] Moreover, whose heart does not shrink with terror of the gods, whose limbs do not crouch in fear, when the parched earth trembles beneath the awful stroke of lightning and rumblings run across the great sky? Do not the peoples and nations' tremble, and proud kings shrink in every limb, thrilled with the fear of the gods, lest for some foul crime or haughty word the heavy time of retribution be ripe?

[1226] Or again, when the fiercest force of furious wind at sea sweeps the commander of a fleet over the waters with his strong legions and his elephants, all in like case, does he not seek with vows the peace of the gods, and fearfully crave in prayer a calm from wind and favouring breezes; all in vain, since often when caught in the headstrong hurricane he is borne for all his prayers to the shallow waters of death? So greatly does some secret force grind beneath its heel the greatness of men, and it is seen to tread down and make sport for itself of the glorious rods and relentless axes.

[1236] Again, when the whole earth rocks beneath men's feet, and cities are shaken to their fall or threaten doubtful of their doom, what wonder if the races of mortal men despise themselves and leave room in the world for the mighty power and marvellous strength of the gods, to guide all things?

[1241] For the rest, copper and gold and iron were discovered, and with them the weight of silver and the usefulness of lead, when a fire had burnt down vast forests with its heat on mighty mountains, either when heaven's lightning was hurled upon it, or because waging a forest-war with one another men had carried fire among the foe to rouse panic, or else because allured by the richness of the land they desired to clear the fat fields, and make the countryside into pasture, or else to put the wild beasts to death, and enrich themselves with prey. For hunting with pit and fire arose first before fencing the grove with nets and scaring the beasts with dogs. However that may be, for whatever cause the flaming heat had eaten up the forests from their deep roots with terrible crackling, and had baked the earth with fire, the streams of silver and gold, and likewise of copper and lead, gathered together and trickled from the boiling veins into hollow places in the ground. And when they saw them afterwards hardened and shining on the ground with brilliant hue, they picked them up, charmed by their smooth bright beauty, and saw that they were shaped with outline like that of the several prints of the hollows. Then it came home to them that these metals might be melted by heat, and would run into the form and figure of anything, and indeed might be hammered out and shaped into points and tips, however sharp and fine, so that they might fashion weapons for themselves, and be able to cut down forests and hew timber and plane beams smooth, yea, and to bore and punch and drill holes. And, first of all, they set forth to do this no less with silver and gold than with the resistless strength of stout copper; all in vain, since their power was vanquished and yielded, nor could they like the others endure the cruel strain. For copper was of more value, and gold was despised for its uselessness, so soon blunted with its dull edge. Now copper is despised, gold has risen to the height of honour. So rolling time changes the seasons of things. What was of value, becomes in turn of no worth; and then another thing rises up and leaves its place of scorn, and is sought more and more each day, and when found blossoms into fame, and is of wondrous honour among men.

[1281] Now, in what manner the nature of iron was found, it is easy for you to learn of yourself, Memmius. Their arms of old were hands, nails, and teeth, and stones, and likewise branches torn from the forests, and flame and fires, when once they were known. Thereafter the strength of iron and bronze was discovered. And the use of bronze was learnt before that of iron, inasmuch as its nature is more tractable, and it is found in greater stores. With bronze they would work the soil of the earth, and with bronze mingle in billowy warfare, and deal wasting wounds and seize upon flocks and fields. For all things naked and unarmed would readily give in to them equipped with arms. Then, little by little, the iron sword made its way, and the form of the bronze sickle was made a thing of scorn, and with iron they began to plough up the soil of earth; and the contests of war, now hovering in doubt, were made equal.

[1297] It was their way to climb armed on to the flanks of a horse, to guide it with reins, and do doughty deeds with the right hand, before they learnt to essay the dangers of war in a two-horsed chariot. And the yoking of two horses came before yoking four, and climbing up armed into chariots set with scythes. Then it was the Poeni who taught the Lucanian kine, with towered body, grim beasts with snaky hands, to bear the wounds of warfare, and work havoc among the hosts of Mars. So did gloomy discord beget one thing after another, to bring panic into the races of men in warfare, and day by day gave increase to the terrors of war.

[1308] They tried bulls, too, in the service of war, and essayed to send savage boars against the foe. And some sent on before them mighty lions with armed trainers and cruel masters, who might be able to control them, and hold them in chains; all in vain, since in the heat of the mellay of slaughter they grew savage, and made havoc of the hosts, both sides alike, tossing everywhere the fearful manes upon their heads, nor could the horsemen soothe the hearts of their horses, alarmed at the roaring, and turn them with their bridles against the foe. The lionesses launched their furious bodies in a leap on every side, and made for the faces of those that came against them, or tore them down in the rear when off their guard, and twining round them hurled them to the ground foredone with the wound, fastening on them with their strong bite and crooked claws. The bulls tossed their own friends and trampled them with their feet, and with their horns gashed the flanks and bellies of the horses underneath, and ploughed up the ground with threatening purpose. And the boars gored their masters with their strong tusks, savagely splashing with their own blood the weapons

broken in them, and threw to the ground horsemen and footmen in one heap. For the horses would swerve aside to avoid the fierce onset of a tusk, or rear and beat the air with their feet; all in vain, since you would see them tumble with tendons severed, and strew the ground in their heavy fall. If ever they thought they had been tamed enough at home before the fight, they saw them burst into fury, when it came to conflict, maddened by the wounds, shouting, flying, panic, and confusion, nor could they rally any part of them; for all the diverse kinds of wild beasts would scatter hither and thither; even as now often the Lucanian kine cruelly mangled by the steel, scatter abroad, when they have dealt many deadly deeds to their own friends.

[1341] If indeed they ever acted thus. But scarce can I be brought to believe that, before this dire disaster befell both sides alike, they could not foresee and perceive in mind what would come to pass. And you could more readily maintain that this was done somewhere in the universe, in the diverse worlds fashioned in diverse fashion, than on any one determined earth. But indeed they wished to do it not so much in the hope of victory, as to give the foemen cause to moan, resolved to perish themselves, since they mistrusted their numbers and lacked arms.

[1350] A garment tied together came before woven raiment. Woven fabric comes after iron, for by iron the loom is fashioned, nor in any other way can such smooth treadles be made, or spindles or shuttles and ringing rods. And nature constrained men to work wool before the race of women; for all the race of men far excels in skill and is much more cunning; until the sturdy husbandman made scorn of it, so that they were glad to leave it to women's hands, and themselves share in enduring hard toil, and in hard work to harden limbs and hands.

[1361] But nature herself, creatress of things, was first a pattern for sowing and the beginning of grafting, since berries and acorns fallen from the trees in due time put forth swarms of shoots beneath; from nature, too, they learnt to insert grafts into branches, and to plant young saplings in the ground over the fields. Then one after another they essayed ways of tilling their smiling plot, and saw the earth tame wild fruits with tender care and fond tilling. And day by day they would constrain the woods more and more to retire up the mountains, and to give up the land beneath to tilth, that on hills and plains they might have meadows, pools, streams, crops, and glad vineyards, and the grey belt of olives might run between with its clear line, spreading over hillocks and hollows and plains; even as now you see all the land clear marked with diverse beauties, where men make it bright by planting it here and there with sweet fruit-trees, and fence it by planting it all round with fruitful shrubs.

[1379] But imitating with the mouth the liquid notes of birds came long before men were able to sing in melody right through smooth songs and please the ear. And the whistling of the zephyr through the hollows of reeds first taught the men of the countryside to breathe into hollowed hemlock-stalks. Then little by little they learned the sweet lament, which the pipe pours forth, stopped by the players' fingers, the pipe invented amid the pathless woods and forests and glades, among the desolate haunts of shepherds, and the divine places of their rest.

[1390] These tunes would soothe their minds and please them when sated with food; for then all things win the heart. And so often, lying in friendly groups on the soft grass near some stream of water under the branches of a tall tree, at no great cost they would give pleasure to their bodies, above all when the weather smiled and the season of the year painted the green grass with flowers. Then were there wont to be jests, and talk, and merry laughter. For then the rustic muse was at its best; then glad mirth would prompt to wreath head and shoulders with garlands twined of flowers and foliage, and to dance all out of step, moving their limbs heavily, and with heavy foot to strike mother earth; whence arose smiles and merry laughter, for all these things then were strong in freshness and wonder. And hence came to the wakeful a solace for lost sleep, to guide their voices through many notes, and follow the windings of a song, and to run over the reeds with curling lip; whence even now the watchmen preserve these traditions, and have learnt to keep to the rhythm of the song, nor yet for all that do they gain a whit greater enjoyment from the pleasure, than the woodland race of earthborn men of old.

[1412] For what is here at hand, unless we have learnt anything sweeter before, pleases us above all, and is thought to excel, but for the most part the better thing found later on destroys or changes our feeling for all

the old things. So hatred for their acorns set in, and the old couches strewn with grass and piled with leaves were deserted. Likewise the garment of wild beasts' skin fell into contempt; yet I suppose that of old it was so envied when found, that he who first wore it was waylaid and put to death, though after all it was torn to pieces among them, and was spoiled with much blood, and could be turned to no profit. It was skins then in those days, and now gold and purple that vex men's life with cares and weary them out with war; and for this, I think, the greater fault lies with us. For cold used to torture the earth-born, as they lay naked without skins; but it does us no hurt to go without our purple robes, set with gold and massy figures, if only there be some common garment to protect us. And so the race of men toils fruitlessly and in vain for ever, and wastes its life in idle cares, because, we may be sure, it has not learned what are the limits of possession, nor at all how far true pleasure can increase. And this, little by little, has advanced life to its high plane, and has stirred up from the lowest depths the great seething tide of war.

[1436] But sun and moon, like watchmen, traversing with their light all round the great turning vault of the world, taught men that the seasons of the year come round, and that the work goes on after a sure plan and a sure order.

[1440] Now fenced in with strong towers they would live their life, and the land was parcelled out and marked off: then the sea was gay with the flying sails of ships: now treaties were drawn up, and they had auxiliaries and allies, when poets first began to hand down men's deeds in songs; yet not much before that were letters discovered. Therefore our age cannot look back to see what was done before, unless in any way reason points out traces.

[1448] Ships and the tilling of the land, walls, laws, weapons, roads, dress, and all things of this kind, all the prizes, and the luxuries of life, one and all, songs and pictures, and the polishing of quaintly-wrought statues, practice and therewith the experience of the eager mind taught them little by little, as they went forward step by step. So, little by little, time brings out each several thing into view, and reason raises it up into the coasts of light. For they saw one thing after another grow clear in their mind, until by their arts they reached the topmost pinnacle.

1.7. Book Six

[01] IN time gone by Athens, of glorious name, first spread among struggling mortals the fruits that bear corn, and fashioned life afresh, and enacted laws; she, too, first gave sweet solace for life, when she gave birth to the man gifted with the great mind, who once poured forth all wisdom from his truthful lips; yea, even when his light was quenched, thanks to his divine discoveries his glory, noised abroad of old, is now lifted to the sky.

[09] For when he saw that mortals had by now attained well-nigh all things which their needs crave for subsistence, and that, as far as they could, their life was established in safety, that men abounded in power through wealth and honours and renown, and were haughty in the good name of their children, and yet not one of them for all that had at home a heart less anguished, but with torture of mind lived a fretful life without any respite, and was constrained to rage with savage complaining, he then did understand that it was the vessel itself which wrought the disease, and that by its disease all things were corrupted within, whatsoever came into it gathered from without, yea even blessings; in part because he saw that it was leaking and full of holes, so that by no means could it ever be filled; in part because he perceived that it tainted as with a foul savor all things within it, which it had taken in. And so with his discourse of truthful words he purged the heart and set a limit to its desire and fear, and set forth what is the highest good, towards which we all strive, and pointed out the path, whereby along a narrow track we may strain on towards it in a straight course; he showed what there is of ill in the affairs of mortals everywhere, coming to being and flying abroad in diverse forms, be it by the chance or the force of nature, because nature had so brought it to pass; he showed from what gates it is meet to sally out against each ill, and he proved that 'tis in vain for the most part that the race of men set tossing in their hearts the gloomy billows of care. For even as children tremble and fear everything in blinding darkness, so we sometimes dread in the light things that are no whit more to be feared than what children shudder at in the dark and imagine will come to pass. This terror then, this darkness of the mind, must needs be scattered not by the rays and the gleaming shafts of day, but by the outer view and the inner

law of nature. Wherefore I will hasten the more to weave the thread of my task in my discourse.

[43] And now that I have shown that the quarters of the firmament are mortal, and that the heaven is fashioned of a body that has birth, and have unraveled well-nigh all that happens therein, and must needs happen, listen still to what remains; forasmuch as once \[I have made bold\] to climb the glorious car \[I will tell how the tempests\] of the winds arise, and are appeased, and all that once was raging is changed again, when its fury is appeased; and all else which mortals see coming to pass on earth and in the sky, when often they are in suspense with panic-stricken mind—things which bring their hearts low through dread of the gods, and bow them down groveling to earth, because their ignorance of true causes constrains them to assign things to the ordinance of the gods, and to admit their domination. For those who have learnt aright that the gods lead a life free from care, yet if from time to time they wonder by what means all things can be carried on, above all among those things which are descried above our heads in the coasts of heaven, are borne back again into the old beliefs of religion, and adopt stern overlords, whom in their misery they believe have all power, knowing not what can be and what cannot, yea, and in what way each thing has its power limited, and its deepset boundary-stone: wherefore all the more they stray, borne on by a blind reasoning.

[68] And unless you spew out all this from your mind and banish far away thoughts unworthy of the gods and alien to their peace, the holy powers of the gods, degraded by thy thought, will often do thee harm; not that the high majesty of the gods can be polluted by thee, so that in wrath they should yearn to seek sharp retribution, but because you yourself will imagine that those tranquil beings in their placid peace set tossing the great billows of wrath, nor with quiet breast will you approach the shrines of the gods, nor have strength to drink in with tranquil peace of mind the images which are borne from their holy body to herald their divine form to the minds of men. And therefore what manner of life will follow, you may perceive.

[80] And in order that truest reasoning may drive this far from us, although much has already gone forth from me, yet much remains to be adorned with polished verse; we must grasp the outer view and inner law of the sky, we must sing of storms and flashing lightnings, of how they act and by what cause they are severally carried along; that you may not mark out the quarters of the sky, and ask in frenzied anxiety, whence came this winged flash, or to what quarter it departed hence, in what manner it won its way through walled places, and how after tyrant deeds it brought itself forth again: the causes of these workings they can by no means see, and think that a divine power brings them about.

[92] Do thou, as I speed towards the white line of the final goal, mark out the track before me, Calliope, muse of knowledge, thou who art rest to men and pleasure to the gods, that with thee to guide I may win the wreath with praise conspicuous.

[96] First of all the blue of the sky is shaken by thunder because the clouds in high heaven, scudding aloft, clash together when the winds are fighting in combat. For the sound comes not from a dear quarter of the sky, but wherever the clouds are massed in denser host, from there more often comes the roar and its loud rumbling. Moreover, the clouds cannot be of so dense a body as are stocks and stones, nor yet so thin as are mists and flying smoke. For either they were bound to fall dragged down by their dead weight, as do stones, or like smoke they could not hold together or keep within them chill snow and showers of hail.

[108] Again, they give forth a sound over the levels of the spreading firmament, as often an awning stretched over a great theater gives a crack, as it tosses among the posts and beams; sometimes, too, it rages madly, rent by the boisterous breezes, and imitates the rending noise of sheets of paper—for that kind of sound too you may recognize in the thunder—or else a sound as when the winds buffet with their blows and beat through the air a hanging garment or flying papers. For indeed it also comes to pass at times that the clouds cannot so much clash together face to face, but rather pass along the flank, moving from diverse quarters, and slowly grazing body against body; and then the dry sound brushes upon the ears, and is drawn out long, until they have issued from their close quarters.

[121] In this way, too, all things seem often to tremble with heavy thunder, and the great walls of the containing world to be torn apart suddenly and leap asunder, when all at once a gathered storm of mighty wind has twisted its way into the clouds, and, shut up there with its whirling eddy, constrains the cloud more

and more on all sides to hollow itself out with body thickening all around; and then, when the force and fierce onslaught of the wind have weakened it, it splits and makes a rending crash with a frightful cracking sound. Nor is that strange, when a little bladder full of air often likewise gives forth a little noise, if suddenly burst.

[132] There is also another way, when winds blow through clouds, whereby they may make a noise. For often we see clouds borne along, branching in many ways, and rough-edged; even as, we may be sure, when the blasts of the north-west blow through a dense forest, the leaves give out a noise and the branches a rending crash.

[137] It comes to pass, too, sometimes, that the force of a mighty wind rushing on tears through the cloud and breaks it asunder with a front attack. For what the blast can do there is shown by things clear to see here on earth, where the wind is gentler and yet it tears out and sucks up tall trees from their lowest roots.

[142] There are, too, waves moving through the clouds, which as it were make a heavy roar in breaking; just as it comes to pass in deep rivers and the great sea, when the tide breaks.

[145] This happens too, when the fiery force of the thunderbolt falls from cloud to cloud; if by chance the cloud has received the flame in deep moisture, it straightway slays it with a great noise; just as often iron white-hot from the fiery furnaces hisses, when we have plunged it quickly into cold water. Or again, if a drier cloud receives the flame, it is at once fired, and burns with a vast noise; just as if among the laurel-leaved mountains flame were to roam abroad beneath the eddying of the winds, burning them up in its mighty onset; nor is there any other thing which is burnt up by the crackling flame with sound so terrible as the Delphic laurel of Phoebus.

[159] Again, often the great cracking of ice and the falling of hail makes a noise in the mighty clouds on high. For when the wind packs them tight, the mountains of storm-clouds, frozen close and mingled with hail, break up.

[160] It lightens likewise, when the clouds at their clashing have struck out many seeds of fire; just as if stone should strike on stone or on iron; for then, too, a flash leaps out and scatters abroad bright sparks of fire.

[164] But it comes to pass that we receive the thunder in our ears after our eyes perceive the lightning, because things always move more slowly to the ears than things which stir the eyes. That you may learn from this too; if you see some one far off cutting down a giant tree with double-edged axe, it comes to pass that you see the stroke before the blow resounds in your ear; even so we see the lightning too before we hear the thunder, which is sent abroad at the same moment with the flash, from a like cause, yea, born indeed from the same collision.

[173] In this manner, too, the clouds colour places with leaping light, and the storm lightens with quivering dart. When wind has come within a cloud, and moving there has, as I have shown before, made the hollow cloud grow thick, it grows hot with its own swift movement; even as you see all things become hot and catch fire through motion, yea, even a ball of lead too, whirling in a long course, will melt. And so when this heated wind has torn through the black cloud, it scatters abroad seeds of fire, as though struck out all at once by force, and they make the pulsing flashes of flame; thereafter follows the sound, which reaches our ears more slowly than things which come to the light of our eyes. This, we must know, comes to pass in thick clouds, which are also piled up high one on the other in wondrous slope; lest you be deceived because we below see how broad they are rather than to what a height they stand piled up. For do but look, when next the winds carry athwart the air clouds in the semblance of mountains, or when you see them heaped along a mighty mountain-range one above the other, pressing down from above, at rest in their appointed place, when the winds on all sides are in their graves. Then you will be able to mark their mighty mass, and to see their caverns built up, as it were, of hanging rocks: and when the storm has risen and the winds have filled them, with loud roar they chafe prisoned in the clouds, and threaten like wild beasts in cages; now from this side, now from that they send forth their roaring through the clouds, and seeking an outlet they move round and round, and roll together the seeds of fire from out the clouds, and so drive many into a mass and set the flame whirling within the hollow furnaces, until they have rent asunder the cloud and flashed blazing out.

[204] For this cause, too, it comes to pass that this swift golden tinge of liquid fire flies down to earth, because it must needs be that the clouds have in themselves very many seeds of fire; for indeed when they are without any moisture, they have for the most part a bright and flaming colour. For verily it must needs be that they catch many such from the sun's light, so that with reason they are red, and pour forth their fires. When then the wind as it drives them has pushed and packed and compelled them into one spot, they squeeze out and pour forth the seeds which make the colours of flame to flash.

[214] It lightens likewise, also when the clouds of heaven grow thin. For when the wind lightly draws them asunder as they move, and breaks them up, it must needs be that those seeds, which make the flash, fall out unbidden. Then it lightens without hideous alarm, without noise, and with no uproar.

[219] For the rest, with what kind of nature the thunderbolts are endowed, is shown by the blows and the burned markings of their heat and the brands which breathe out noisome vapours of sulphur. For these are marks of fire, not of wind nor rain. Moreover, often too they set the roofs of dwellings on fire, and with swiftly-moving flame play the tyrant even within the houses.

[225] This fire, you must know, nature has fashioned most subtle of all subtle fires, of tiny swift-moving bodies—a flame to which nothing at all can be a barrier. For the strong thunderbolt can pass through the walls of houses, even as shouts and cries, can pass through rocks, through things of bronze, and in a moment of time can melt bronze and gold; likewise it causes wine in an instant to flee away, though the vessels be untouched, because, we may be sure, its heat as it comes easily loosens all around and makes rarefied the porcelain of the vessel, and finding its way right into the wine, with quick motion dissolves and scatters the first-beginnings of the wine. Yet this the heat of the sun is seen to be unable to bring about in a long age, though it has such exceeding strength in its flashing blaze. So much swifter and more masterful is this force of the thunderbolt.

[239] Now in what manner they are fashioned and made with such force that they can with their blow burst open towers, overthrow houses, pluck up beams and joists, and upset and \[destroy\] the monuments of men, take the life from men, lay low the flocks on every side; by what force they are able to do all other things of this sort, I will set forth, nor keep thee longer waiting on my promise.

[246] We must suppose that thunderbolts are produced from thick clouds, piled up on high; for none are ever hurled abroad from the clear sky or from clouds of slight thickness. For without doubt clear-seen facts show that this comes to pass; at such times clouds grow into a mass throughout all the air, so that on all sides we might think that all darkness has left Acheron and filled the great vault of the sky; so terribly, when the noisome night of clouds has gathered together, do the shapes of black fear hang over us on high, when the storm begins to forge its thunderbolts.

[256] Moreover, very often a black storm-cloud too, over the sea, like a stream of pitch shot from the sky, falls upon the waters, laden with darkness afar off, and draws on a black storm big with thunderbolts and hurricanes, itself more than all filled full with fires and winds in such wise that even on land men shudder and leek for shelter. Thus then above our head must we suppose the storm is raised high. For indeed they would not shroud the earth in such thick gloom, unless there were many clouds built up aloft on many others, shutting out all sunlight; nor when they come could they drown it in such heavy rain, as to make the rivers overflow and the fields swim, unless the ether were filled with clouds piled up on high.

[269] Here, then, all is full of winds and fires; for this cause all around come crashings and lightnings. For verily I have shown ere now that the hollow clouds possess very many seeds of heat, and many they must needs catch from the sun's rays and their blaze. Therefore, when the same wind, which drives them together, as it chances, into some one place, has squeezed out many seeds of heat, and at the same time has mingled itself with this fire, an eddy finds its way in there and whirls round in a narrow space and sharpens the thunderbolt in the hot furnaces within. For it is kindled in two ways, both when it grows hot with its own swift motion, and from contact with the fire. Next, when the force of the wind has grown exceeding hot, and the fierce onset of the fire has entered in, then the thunderbolt, full-forged, as it were, suddenly rends through the cloud, and shot out is borne on flooding all places with its blazing light. In its train follows a heavy crash, so

that the quarters of the sky above seem to be burst asunder on a sudden and crush us. Then a trembling thrills violently through the earth, and rumblings race over the high heaven; for then all the storm is shaken into trembling and roarings move abroad. And from this shock follows rain, heavy and abundant, so that all the air seems to be turned into rain and thus falling headlong to summon earth back to deluge: so great a shower is shot forth with the rending of the cloud and the hurricane of wind, when the thunderclap flies forth with its burning blow.

[295] At times, too, the rushing force of wind falls from without upon the cloud hot with its new-forged thunderbolt; and when it has rent the cloud, straightway there falls out that fiery eddy which we call by the name our fathers gave it, the thunderbolt. The same thing happens in other directions, wherever its force has carried it.

[300] It comes to pass, too, sometimes that the force of the wind, starting without fire, yet catches fire on its course and its long wandering, as it loses in its journey, while it is approaching, certain large bodies, which cannot like the others make their way through the air; and gathering other small bodies from the air itself it carries them along, and they mingling with it make fire in their flight; in no other way than often a ball of lead grows hot in its course, when dropping many bodies of stiff cold it has taken in fire in the air.

[309] It comes to pass, too, that the force of the very blow rouses fire, when the force of the wind, starting cold without fire, has struck its stroke; because, we may be sure, when it has hit with violent blow, particles of heat can stream together out of the wind itself, and at the same time from the thing which then receives the blow; just as, when we strike a stone with iron, fire flies out, nor do the seeds of blazing heat rush together any more slowly at its blow, because the force of the iron is cold. Thus then a thing is bound to be kindled by the thunderbolt too, if by chance it is made fit and suitable for flame. Nor must we rashly think that the force of the wind can be wholly and utterly cold, when it has been discharged with such force on high; rather, if it is not beforehand on its journey kindled with fire, yet it arrives warmed and mingled with heat.

[323] But the great speed of the thunderbolt and its heavy blow comes to pass, yea, the thunderbolts always run their course with swift descent, because their force unaided is first of all set in motion in each case, and gathers itself within the clouds, and conceives a great effort for starting; and then, when the cloud has not been able to contain the growing strength of its onset, its force is squeezed out, and so flies with wondrous impulse even as the missiles which are borne on, when shot from engines of war.

[330] Remember, too, that it is made of small and smooth particles, nor is it easy for anything to withstand such a nature: for it flies in between and pierces through the hollow passages, and so it is not clogged and delayed by many obstacles, and therefore it flies on falling with swift impulse.

[335] Again, because all weights by nature always press downwards, but when a blow is given as well, their swiftness is doubled and the impulse grows stronger, so that the more violently and quickly does it scatter with its blows all that impedes it, and continues on its journey.

[340] Once again, because it comes with long-lasting impulse, it is bound to gather speed ever more and more, which grows as it moves, and increases its strong might and strengthens its stroke. For it brings it about that the seeds of the thunderbolt are one and all carried in a straight line, as it were towards one spot, driving them all as they fly into the same course. It may chance too that as it goes it picks up certain bodies even from the air, which kindle its swiftness by their blows.

[348] And it passes through things without harming them, and goes right through many things, and leaves them whole, because the liquid fire flies through the pores. And it pierces through many things, since the very bodies of the thunderbolt have fallen on the bodies of things just where they are interlaced and held together. Moreover, it easily melts bronze and in an instant makes gold to boil, because its force is fashioned delicately of tiny bodies and of smooth particles, which easily force a way within, and being there at once loose all the knots and slacken the bonds.

[357] And most in autumn is the house of heaven, set with shining stars, shaken on all sides and all the earth, and again when the flowery season of spring spreads itself abroad. For in the cold fires are lacking, and in

the heat winds fail, nor are clouds of so dense a body. And so when the seasons of heaven stand midway between the two, then all the diverse causes of the thunderbolt meet together. For the narrow channel of the year of itself mingles cold and heat—of both of which the cloud has need for the forging of thunderbolts—so that there is a wrangling among things, and with great uproar the air rages and tosses with fires and winds. For the first part of the heat is the last of the stiff cold, that is the spring season: wherefore it must needs be that different elements, mingled with one another, make battle and turmoil. And again, when the last heat rolls on mingled with the first cold—the season which is called by the name of autumn—then, too, keen winters do battle with summers. For this cause these seasons must be called the narrow channels of the year, nor is it strange, if at that time thunderbolts come most often, and a turbulent tempest is gathered in the sky, since from either side is roused the turmoil of doubtful battle, on the one side with flames, on the other with mingled wind and wet.

[379] This is the way to see into the true nature of the thunderbolt, and to perceive by what force it does each thing, and not by unrolling vainly the Tyrrhenian prophecies and seeking out tokens of the hidden purpose of the gods, marking whence came the winged flash, or to what quarter it departed hence, in what manner it won its way through walled places, and how after tyrant deeds it brought itself forth again, or what harm the stroke of the thunderbolt from heaven can do.

[387] But if Jupiter and the other gods shake the shining quarters of heaven with awe-inspiring crash and hurl the fire to whatever point each may will, why do they not bring it about that those who have not guarded against some sin from which men hide their face, are struck and reek of the flames of lightning, with their breast pierced through, a sharp lesson to mortals? why rather is one conscious of no foul guilt wrapt and entangled, all innocent, in the flames, caught up in a moment in the fiery whirlwind of heaven?

[396] Why again do they aim at waste places and spend their strength for naught? are they then practising their arms and strengthening their muscles? and why do they suffer the father's weapon to be blunted on the earth? why does he himself endure it and not spare it for his foes? Again, why does Jupiter never hurl his thunderbolt to earth and pour forth his thunders when the heaven is clear on all sides? Or, as soon as the clouds have come up, does he himself then come down into them, so that from them he may direct the blow of his weapon from close at hand? Again, with what purpose does he throw into the sea? what charge has he against the waves, the mass of water and the floating fields?

[406] Moreover, if he wishes us to beware of the thunderbolt's stroke, why is he reluctant to let us be able to see its cast? but if he wishes to overwhelm us with the fire when off our guard, why does he thunder from that quarter, so that we can shun it? why does he gather darkness beforehand and rumblings and roarings?

[411] And how can you believe that he hurls his bolts at once to many sides? or would you dare to argue that this has never come to pass, that several strokes were made at one time? Nay, but very often has it happened and must needs happen, that as it rains and showers fall in many regions, so many thunderbolts are fashioned at one time.

[417] Lastly, why does he smite asunder the sacred shrines of the gods and his own glorious dwelling-places with hostile bolt? why does he destroy the fair-fashioned idols of the gods and take away their beauty from his images with his furious wound? And why does he aim mostly at lofty spots, so that we see most traces of his fire on mountain-tops?

[423] Next after this, it is easy to learn from these things in what way there come into the sea, shot from on high, what the Greeks from their nature have named fiery presters. For it comes to pass sometimes that as it were a column let down descends from the sky into the sea, around which the surges boil, violently stirred by breathing blasts, and all ships that are then caught in that turmoil, are harried and come into great danger.

[431] This comes to pass sometimes when the force of the wind set in motion cannot burst the cloud it starts to burst, but presses it down, so that it is weighed down like a column from sky to sea, little by little, as though something were being thrust down and stretched out into the waves by a fist and the pushing of an arm above; and when it has rent this cloud asunder, the force of the wind bunts forth thence into the sea and

brings to pass a wondrous seething in the waters. For a whirling eddy descends and brings down along with it that cloud of pliant body; and as soon as it has forced it down pregnant on to the levels of ocean, the eddy on a sudden plunges its whole self into the water, and stirs up all the sea with a great roar, constraining it to seethe.

[443] It comes to pass also that an eddy of wind by itself wraps itself in clouds, gathering together seeds of cloud from the air and, as it were, imitates the prester let down from the sky. When this eddy has let itself down to earth and broken up, it vomits forth a furious force of whirlwind and storm. But because this happens but rarely at all, and mountains must needs bar it on land, it is seen more often on a wide prospect of sea, and in an open stretch of sky.

[451] Clouds gather up, when many bodies as they fly in this upper expanse of heaven have all at once come together—bodies of rougher kind, such as can, though they be but intertwined with slight links, yet grasp and cling to one another. These first of all cause little clouds to form; then these grip hold of one another and flock together, and uniting they grow and are borne on by the winds, until at last a furious tempest has gathered together.

[459] It comes to pass, too, that mountain-tops, the closer they are to the sky, the more at that height do they smoke continually with the thick darkness of a murky cloud, because, when first the clouds form, still thin, before the eyes can see them, the winds carry them and drive them together to the topmost peaks of the mountain. There it comes to pass at last that, gathered now in a greater throng and thickened, they can be seen, and at once they seem to rise into the open sky from the very summit of the mountain. For clear fact and our sense, when we climb high mountains, proclaim that windy regions stretch above.

[470] Moreover, that nature lifts up many such bodies all over the sea is shown by clothes hung out on the shore, when they take in a clinging moisture. Wherefore it is all the more seen that many bodies too can rise to swell the clouds from the salt tossing ocean; for in all their nature these two moistures are akin.

[476] Moreover, we see clouds and vapour rising from all rivers, and likewise from the very earth which, like a breath, are forced out hence and carried upwards, and curtain the heaven with their darkness, and little by little, as they meet, build up the clouds on high. For the vapour of the starry ether above presses down on them too, and, as it were by thickening, weaves a web of storm-cloud beneath the blue.

[483] It happens, too, that there come into our sky those bodies from without which make clouds and flying storms. For I have shown that their number is innumerable, and the sum of the deep measureless, and I have set forth with what speed the bodies fly, and how in a moment they are wont to traverse through space that none can tell. So it is not strange if often in a short time storm and darkness cover up sea and land with such great storm-clouds, brooding above, inasmuch as on all sides through all the pores of the ether, and, as it were, through the breathing-holes of the great world all around there is furnished for the particles exit and entrance.

[495] Come now, in what manner the rainy moisture gathers together in the high clouds, and how the shower falls shot down upon the earth, I will unfold. First of all it will be granted me that already many seeds of water rise up with the clouds themselves from out of all things, and that both alike grow in this manner, both clouds and all water that is in the clouds, just as our body grows along with its blood, and likewise sweat and all the moisture too that is within the limbs. Besides, they often take in also much moisture from the sea, just like hanging fleeces of wool, when the winds carry the clouds over the great sea. In like manner moisture from all streams is raised to the clouds. And when many seeds of waters in many ways have duly come together there, increased from all quarters, the packed clouds are eager to shoot out the moisture for a double cause; for the force of the wind pushes it on and the very mass of the clouds, driven together in greater throng, presses on it and weighs it down from above, and makes the showers stream out. Moreover, when the clouds, too, are thinned by the winds or broken up, smitten by the sun's heat above, they send out the rainy moisture and drip, even as wax over a hot fire melts and flows in a thick stream.

[517] But a violent downpour comes to pass, when the clouds are violently pressed by either force, their own mass and the impulse of the wind. Yea, and the rains are wont to hold on long and make a great stay, when many seeds of water are gathered, and clouds piled upon clouds and streaming storms above them are borne on from every quarter, and when the whole earth smoking, breathes out its moisture.

[524] When at such time the sun amid the dark tempest has shone out with its rays full against the spray of the storm-clouds, then among the black clouds stand out the hues of the rainbow.

[527] All other things which grow above and are brought to being above, and which gather together in the clouds, all, yea all of them, snow, winds, hail, chill hoar-frosts, and the great force of ice, that great hardener of waters, the curb which everywhere reins in the eager streams, it is yet right easy to find these out, and to see in the mind in what manner they all come to be and in what way they are brought to being, when you have duly learned the powers that are vouchsafed to the elements.

[535] Come now and learn what is the law of earthquakes. And first of all let yourself suppose that the earth is below, just as above, full on all sides of windy caverns; and you must think it bears in its bosom many lakes and many pools and cliffs and sheer rocks; and that many rivers hidden beneath the back of the earth roll on amid their waves and submerged stones. For clear fact demands that it should be in all parts like itself.

[543] When these things then are placed and linked together beneath it, the earth above trembles, shaken by great falling masses, when beneath time has caused huge caverns to fall in; nay, indeed, whole mountains fall, and at the great sudden shock tremblings creep abroad thence far and wide. And with good reason, since whole houses by the roadside tremble when shaken by a wagon of no great weight, and rock none the less, whenever a stone in the road jolts on the iron circles of the wheels on either side.

[552] It comes to pass too, when a vast mass of soil, loosened by age from the earth, rolls down into huge wide pools of water, that the earth too tosses and sways beneath the wave of water; even as a vessel sometimes cannot stand still, unless the liquid within has ceased to toss with unsteady wave.

[557] Moreover, when the wind gathering throughout the cavernous places of the earth blows strong from one point, and with all its weight presses on the lofty caves with mighty strength, the earth leans over to where the swooping force of the wind presses it. Then the houses that are built up upon the earth, yea, the more they are severally raised towards the sky, bend over in suspense, tottering towards the same quarter, and the timbers driven forward hang out ready to fall. And yet men fear to believe that a time of destruction and ruin awaits the nature of the great world, even when they see so great a mass of earth bowing to its fall. Why, unless the winds breathed in again, no force could put a curb on things or avail to pull them back from destruction as they fell. As it is, because turn by turn they breathe in and then grow violent, because, as it were, they rally and charge again and then are driven back and give ground, for this reason the earth more often threatens a fall than brings it to pass; for it leans over and then sways back again, and after falling forward recovers its position to a steady poise. In this way, then, the whole building rocks, the top more than the middle, the middle more than the bottom, the bottom but a very little.

[577] There is this cause, too, of that same great shaking, when suddenly wind and some exceeding great force of air, gathering either from without or within the earth itself, have hurled themselves into the hollow places of the earth, and there first rage among the great caves in turmoil, and rise, carried on in a whirl; and when afterwards the moving force driven forth bursts out and at the same time cleaves the earth and causes a huge chasm. Even as it came to pass at Sidon in Syria, and as was the case at Aegium in Peloponnese, cities overthrown by this issue of air and the quaking of the earth which arose. And besides many walled towns have fallen through great movements on land, and many cities have sunk down deep into the sea, inhabitants and all.

[591] And even if it does not burst forth, yet the very impulse of the air and the fierce force of the wind are spread, like a fit of shivering, throughout the riddling passages of the earth, and thereby induce a trembling: even as cold, when it comes deep into our members, shakes them against their will and constrains them to tremble and to move. So men quiver with anxious terror throughout the cities, they fear the houses above,

they dread the hollow places beneath, lest the nature of the earth should break them open all at once, and lest torn asunder she should open wide her maw, and, tumbled all together, desire to fill it with her own falling ruins.

[601] Let them then believe as they will that heaven and earth will be indestructible, entrusted to some everlasting protection; and yet from time to time the very present force of danger applies on some side or other this goad of fear, lest the earth, snatched away suddenly from beneath their feet be carried into the abyss, and the sum of things, left utterly without foundation, follow on, and there be a tumbling wreck of the whole world.

[608] First of all they wonder that nature does not make the sea bigger, since there comes into it so great a downpour of water, yea, all the streams from every quarter. Add, if you will, the shifting showers and the scudding storms, which bespatter and drench all seas and lands; add too its own springs; yet compared to the sum of the sea all these things will scarce be equal to the increase of a single drop; therefore it is the less strange that the great sea does not increase.

[616] Moreover, the sun draws off a great part by his heat. For verily we see the sun with its blazing rays dry clothes wringing with moisture; and yet we see many oceans spread wide beneath earth's level. Therefore, although from each single place the sun sucks up but a small part of moisture from the level sea; yet in so great a space it will draw largely from the waves.

[623] Then again, the winds too can lift a great part of moisture as they sweep the level seas, since very often we see roads dried by the wind in a single night, and the soft mud harden into crusts.

[627] Moreover, I have shown that the clouds too lift up much moisture taken in from the great level of ocean, and scatter it broadcast over all the circle of lands, when it rains on the earth and the winds carry on the clouds.

[631] Lastly, since the earth is formed of porous body, and is continuous, surrounding on all sides the shores of the sea, it must needs be that, just as the moisture of water passes into the sea from the lands, it likewise filters through into the land from the salt sea levels; for the brine is strained through, and the substance of moisture oozes back and all streams together at the fountain-head of rivers, and thence comes back over the lands with freshened current, where the channel once cleft has brought down the waters in their liquid march.

[639] Now what is the reason that through the jaws of Mount Etna flames sometimes breathe forth in so great a hurricane, I will unfold. For indeed the flaming storm gathered with no moderate force of destruction and ruled tyrant through the fields of the Sicilians and turned to itself the gaze of neighbouring nations, when they saw all the quarters of the heavens smoke and sparkle, and filled their breasts with shuddering anxiety for what new change nature might be planning.

[647] Herein you must look far and deep and take a wide view to every quarter, that you may remember that the sum of things is unfathomable, and see how small, how infinitely small a part of the whole sum is one single heaven—not so large a part, as is a single man of the whole earth. And if you have this duly before you and look clearly at it and see it clearly, you would cease to wonder at many things.

[655] For does any of us wonder, if a man has caught in his limbs a fever gathering with burning heat, or any other painful disease in his members? For a foot will swell suddenly, often a sharp pain seizes on the teeth or makes its way right into the eyes; the holy fire breaks out and creeping about in the body burns any part which it has seized, and crawls through the limbs, because, as we may be sure, there are seeds of many things, and this earth and heaven has enough disease and malady, from which the force of measureless disease might avail to spread abroad. So then we must suppose that out of the infinite all things are supplied to the whole heaven and earth in number enough that on a sudden the earth might be shaken and moved, and a tearing hurricane course over sea and land, the fire of Etna well forth, and the heaven be aflame. For that too comes to pass, and the quarters of heaven blaze, and there are rainstorms gathering in heavier mass, when by chance the seeds of the waters have so arranged themselves.

[673] 'Nay, but the stormy blaze of this fire is exceeding gigantic.' So, too, be sure, is the river which is the greatest seen by a man, who has never before seen any greater: so a tree or a man may seem gigantic, and in every kind of thing, the greatest that each man has seen, he always imagines gigantic, and yet all of them together, yea, with heaven and earth and sea besides, are nothing to the whole sum of the universal sum.

[680] But now in what ways that flame is suddenly excited and breathes abroad from out the vast furnaces of Etna, I will unfold. First of all the nature of the whole mountain is hollow beneath, resting everywhere on caverns of basalt. Moreover, in all the caves there is wind and air. For air becomes wind, when it is set in motion and aroused. When it has grown hot, and as it rages has heated all the rocks and the earth around wherever it touches them, and has struck out from them a fire hot with swift flames, it rises up and so drives itself forth on high straight through the mountain's jaws. And so it carries its heat far, and afar it scatters the ash and rolls on a smoke with thick murky darkness, and all the while hurls out rocks of marvellous weight; for you must not doubt that this is the stormy force of air.

[694] Moreover, in great part the sea makes its waves break and sucks in its tide at the roots of that mountain. From this sea caves stretch underneath right to the deep jaws of the mountain. By this path we must admit that \[water\] passes in, and the fact compels us \[to believe that wind is mingled with it\] and pierces deep in from the open sea, and then breathes out, and so lifts up the flame and casts up rocks and raises clouds of dust. For on the topmost peak are craters, as the inhabitants name them; what we call jaws or mouths.

[703] Some things there are, too, not a few, for which to tell one cause is not enough; we must give more, one of which is yet the actual cause; just as if you yourself were to see the lifeless body of a man lying before you, it would be right that you should name all causes of death, in order that the one cause of that man's death might be told. For you could not prove that he had perished by the sword or of cold, or by disease or perchance by poison, but we know that it was something of this sort which was his fate. Likewise, we can say the same in many cases.

[712] The Nile, the river of all Egypt, alone in the world rises, as summer comes, and overflows the plains. Its waters Egypt often amid the hot season, either because in summer the north winds, which at that time are said to be the etesian winds, are dead against its mouths; blowing against its stream they check it, and driving the waters upwards fill the channel and make it stop. For without doubt these blasts, which are started from the chill constellations of the pole are driven full against the stream. The river comes from the south out of the quarter where heat is born, rising among the black races of men of sunburnt colour far inland in the region of mid-day.

[724] It may be too that a great heaping up of sand may choke up the mouths as a bar against the opposing waves, when the sea, troubled by the winds, drives the sand within; and in this manner it comes to pass that the river has less free issue, and the waves likewise a less easy downward flow.

[729] It may be, too, perhaps that rains occur more at its source at that season, because the etesian blasts of the north winds then drive all the clouds together into those quarters. And, we may suppose, when they have come together driven towards the region of mid-day, there at last the clouds, thrust together upon the high mountains, are massed and violently pressed.

[735] Perchance it swells from deep among the high mountains of the Ethiopians, where the sun, traversing all with his melting rays, forces the white snows to run down into the plains.

[738] Come now, I will unfold to you with what nature are endowed all Avernian places and lakes.

[740] First of all, in that they are called by the name Avernian, that is given them from the fact, because they are harmful to all birds, in that, when they have come right over those spots in their flight, forgetting the oarage of their wings, they slack their sails, and fall headlong, drooping with languid neck to earth, if by chance the nature of the spots so determines it, or into the water, if by chance the lake of Avernus spreads beneath them. That spot is by Cumae, where mountains smoke, choked with biting sulphur and enriched with hot springs.

[749] There is too a spot within the walls of Athens, on the very summit of the citadel, by the temple of Pallas Tritonis, the life-giver, whither croaking crows never steer their bodies on the wing, not even when the altars smoke with offerings. So surely do they fly, not in truth from the fierce wrath of Pallas, because of their vigil, as the poets of the Greeks have sung, but the nature of the spot of its own force accomplishes the task.

[756] In Syria, too, it is said that there is likewise a spot to be seen, where, as soon as even four-footed beasts have set foot, its natural force constrains them to fall heavily, as though they were on a sudden slaughtered to the gods of the dead.

[760] Yet all these things are brought about by a natural law, and it is clearly seen from what causes to begin with they come to be; lest by chance the gateway of Orcus should be thought to be in these regions; and thereafter we should by chance believe that the gods of the dead lead the souls below from this spot to the shores of Acheron; even as stags of winged feet are often thought by their scent to drag from their lairs the races of crawling serpents. And how far removed this is from true reason, now learn; for now I will try to tell of the true fact.

[769] First of all I say, what I have often said before as well, that in the earth there are shapes of things of every kind; many which are good for food, helpful to life, and many which can induce diseases and hasten death. And that for different animals different things are suited for the purpose of life, I have shown before, because their nature and texture and the shapes of their first-beginnings are unlike, the one to the other. Many things which are harmful pass through the ears, many which are dangerous and rough to draw in find their way even through the nostrils, nor are there a few which should be avoided by the touch, yea, and shunned by the sight, or else are bitter to the taste.

[781] Next we may see how many things are for man of a sensation keenly harmful, and are nauseous and noxious; first, certain trees are endowed with a shade so exceeding noxious, that often they cause an aching of the head, if one has lain beneath them, stretched upon the grass. There is, too, a tree on the great mountains of Helicon, which is wont to kill a man with the noisome scent of its flower. We may be sure that these things all grow in this way from the earth, because the earth contains in itself many seeds of many things, mingled in many ways, and gives them forth singled out. Again, a light but newly extinguished at night, when it meets the nostrils with its pungent smell, at once puts to sleep a man who is wont through disease to fall down and foam at the mouth. And a woman will fall back asleep with the heavy scent of castor, and her gay-coloured work slips from her delicate hands, if she has smelt it at the time when she has her monthly discharge. And many other things too slacken the drooping members throughout the frame, and make the soul totter within its abode. Once again, if you dally in the hot bath when you are too full, how easily it comes to pass often that you fall down, as you sit on the stool in the middle of the boiling water. And how easily the noxious force and smell of charcoal finds its way into the brain, unless we have taken water beforehand. And when the burning fever has seized and subdued the limbs, then the smell of wine is like a slaughtering blow. Do you not see, too, sulphur produced in the very earth and pitch harden into crusts of a noisome scent? and again, when men are following up the veins of gold and silver, probing with the pick deep into the hidden parts of earth, what stench Scaptensula breathes out underground? And what poison gold mines may exhale! how strange they make men's faces, how they change their colour! Have you not seen or heard how they are wont to die in a short time and how the powers of life fail those, whom the strong force of necessity imprisons in such work? All these effluences then earth sends steaming forth, and breathes them out into the open and the clear spaces of heaven.

[818] So these Avernian spots too must needs send up some fume deadly to the birds, which rises from the earth into the air, so that it poisons the expanse of heaven in a certain quarter; and at the very moment when the bird is carried thither on its wings, it is checked there, seized by the secret poison, so that it tumbles straight down on the spot, where the effluence has its course. And when it has fallen into it, there the same force of the effluence takes away the remnant of life out of all its limbs. For verily first of all it causes a kind of dizzy seething in the birds: afterwards it comes to pass that, when they have fallen right into the sources of the poison, there they must needs vomit forth their life as well, because there is great store of poison all around them.

[830] It may happen, too, sometimes that this force and effluence of Avernus dispels all the air that is situate between the birds and the ground, so that there is left here an almost empty space. And when the birds in their flight have come straight over this place, on a sudden the lifting force of their pinions is crippled and useless, and all the effort of their wings fails on either side. And then, when they cannot support themselves or rest upon their wings, of course nature constrains them to sink by their weight to the ground, and lying in death in what is now almost empty void, they scatter abroad their soul through all the pores of their body

[840] Moreover, the water in wells becomes colder in summer, because the earth grows porous with the heat, and if by chance it has any seeds of heat of its own, it sends them abroad into the air. The more then earth is exhausted of its heat, the colder too becomes the moisture which is hidden in the earth. Moreover, when all the earth is hard pressed with cold, and contracts and, as it were, congeals, of course it comes to pass that, as it contracts, it squeezes out into the wells any heat it bears in itself.

[848] There is said to be near the shrine of Ammon a fountain, cold in the daylight and warm in the night time. At this fountain men marvel overmuch, and think that it is made to boil in haste by the fierceness of the sun beneath the earth, when night has shrouded earth in dreadful darkness. But this is exceeding far removed from true reasoning. For verily, when the sun, touching the uncovered body of the water, could not make it warm on the upper side, though its light in the upper air enjoys heat so great, how could it beneath the earth with its body so dense boil the water and fill it with warm heat? and that when it can scarcely with its blazing rays make its hot effluence pierce through the walls of houses.

[861] What then is the reason? We may be sure, because the ground is rarer and warmer around the fountain than the rest of the earth, and there are many seeds of fire near the body of the water. Therefore, when night covers the earth with the shadows that bring the dew, straightway the earth grows cold deep within and contracts. By this means it comes to pass that, as though it were pressed by the hand, it squeezes out into the fountain all the seeds of fire it has, which make warm the touch and vapour of the water. Then when the rising sun has parted asunder the ground with his rays, and has made it rarer, as his warm heat grows stronger, the first-beginnings of fire pass back again into their old abode, and all the heat of the water retires into the earth. For this cause the fountain becomes cold in the light of day.

[874] Moreover, the moisture of the water is buffeted by the sun's rays, and in the light grows rarer through the throbbing heat; therefore it comes to pass that it loses all the seeds of fire that it has; just as often it gives out the frost that it contains in itself, and melts the ice and loosens its bindings.

[879] There is also a cold spring, over which if tow be held, it often straightway catches fire and casts out a flame, and a torch in like manner is kindled and shines over the waters, wherever, as it floats, it is driven by the breezes. Because, we may be sure, there are in the water very many seeds of heat, and it must needs be that from the very earth at the bottom bodies of fire rise up through the whole spring, and at the same time are breathed forth and issue into the air, yet not so many of them that the spring can be made hot. Moreover, a force constrains them suddenly to burst forth through the water scattered singly, and then to enter into union up above.

[890] Even as there is a spring within the sea at Aradus, which bubbles up with fresh water and parts the salt waters asunder all around it; and in many other spots too the level sea affords a welcome help to thirsty sailors, because amid the salt it vomits forth fresh water. So then those seeds are able to burst out through that spring, and to bubble out into the tow; and when they gather together or cling to the body of the torch, readily they blaze out all at once, because the tow and torches too have many seeds of hidden fire in themselves.

[900] Do you not see too, when you move a wick just extinguished near a night-lamp, that it is kindled before it has touched the flame, and a torch in like manner? And many other things as well are touched first by the mere heat and blaze out at a distance, before the fire soaks them close at hand. This then we must suppose comes to pass in that spring too.

[906] For what follows, I will essay to tell by what law of nature it comes to pass that iron can be attracted by the stone which the Greeks call the magnet, from the name of its native place, because it has its origin within the boundaries of its native country, the land of the Magnetes. At this stone men marvel; indeed, it often makes a chain of rings all hanging to itself. For sometimes you may see five or more in a hanging chain, and swaying in the light breezes, when one hangs on to the other, clinging to it beneath, and each from the next comes to feel the binding force of the stone: in such penetrating fashion does its force prevail.

[917] In things of this kind much must be made certain before you can give account of the thing itself, and you must approach by a circuit exceeding long: therefore all the more I ask for attentive ears and mind.

[921] First of all from all things, whatsoever we can see, it must needs be that there stream off, shot out and scattered abroad, bodies such as to strike the eyes and awake our vision. And from certain things scents stream off unceasingly; even as cold streams from rivers, heat from the sun, spray from the waves of the sea, which gnaws away the walls by the seashore. Nor do diverse sounds cease to ooze through the air. Again, moisture of a salt savour often comes into our mouth, when we walk by the sea, and on the other hand, when we behold wormwood being diluted and mixed, a bitter taste touches it. So surely from all things each several thing is carried off in a stream, and is sent abroad to every quarter on all sides, nor is any delay or respite granted in this flux, since we perceive unceasingly, and we are suffered always to descry and smell all things, and to hear them sound.

[936] Now I will tell "over again of how rarefied a body all things are; which is clearly shown in the beginning of my poem too. For verily, although it is of great matter to learn this for many things, it is above all necessary for this very thing, about which I am essaying to discourse, to make it sure that there is nothing perceptible except body mingled with void. First of all it comes to pass that in caves the upper rocks sweat with moisture and drip with trickling drops. Likewise sweat oozes out from all our body, the beard grows and hairs over all our limbs and members, food is spread abroad into all the veins, yea, it increases and nourishes even the extreme parts of the body, and the tiny nails. We feel cold likewise pass through bronze and warm heat, we feel it likewise pass through gold and through silver, when we hold full cups in our hands. Again voices fly through stone partitions in houses, smell penetrates and cold and the heat of fire, which is wont to pierce too through the strength of iron. Again, where the breastplate of the sky closes in the world all around \[the bodies of clouds and the seeds of storms enter in\], and with them the force of disease, when it finds its way in from without; and tempests, gathering from earth and heaven, hasten naturally to remote parts of heaven and earth; since there is nothing but has a rare texture of body.

[959] There is this besides, that not all bodies, which are thrown off severally from things, are endowed with the same effect of sense, nor suited in the same way to all things. First of all the sun bakes the ground and parches it, but ice it thaws and causes the snows piled high on the high mountains to melt beneath its rays. Again, wax becomes liquid when placed in the sun's heat. Fire likewise makes bronze liquid and fuses gold, but skins and flesh it shrivels and draws all together. Moreover, the moisture of water hardens iron fresh from the fire, but skins and flesh it softens, when hardened in the heat. The wild olive as much delights the bearded she-goats, as though it breathed out a flavour steeped in ambrosia and real nectar; and yet for a man there is no leafy plant more bitter than this for food. Again, the pig shuns marjoram, and fears every kind of ointment; for to bristling pigs it is deadly poison, though to us it sometimes seems almost to give new life. But on the other hand, though to us mud is the foulest filth, this very thing is seen to be pleasant to pigs, so that they wallow all over in it and never have enough.

[979] This too remains, which it is clear should be said, before I start to speak of the thing itself. Since many pores are assigned to diverse things, they must needs be endowed with a nature differing from one another, and have each their own nature and passages. For verily there are diverse senses in living creatures, each of which in its own way takes in its own object within itself. For we see that sounds pass into one place and the taste from savours into another, and to another the scent of smells. Moreover, one thing is seen to pierce through rocks, another through wood, and another to pass through gold, and yet another to make its way out from silver and glass. For through the one vision is seen to stream, though the other heat to travel, and one thing is seen to force its way along the same path quicker than others. We may know that the nature of the passages causes this to come to pass, since it varies in many ways, as we have shown a little before on

account of the unlike nature and texture of things.

[998] Wherefore, when all these things have been surely established and settled for us, laid down in advance and ready for use, for what remains, from them we shall easily give account, and the whole cause will be laid bare, which attracts the force of iron.

[1002] First of all it must needs be that there stream off this stone very many seeds or an effluence, which, with its blows, parts asunder all the air which has its place between the stone and the iron. When this space is emptied and much room in the middle becomes void, straightway fust-beginnings of the iron start forward and fall into the void, all joined together; it comes to pass that the ring itself follows and advances in this way, with its whole body. Nor is anything so closely interlaced in its first particles, all clinging linked together, as the nature of strong iron and its cold roughness. Therefore it is the less strange, since it is led on by its particles, that it is impossible for many bodies, springing together from the iron, to pass into the void, but that the ring itself follows; and this it does, and follows on, until it has now reached the very stone and clung to it with hidden fastenings. This same thing takes place in every direction; on whichever side room becomes void, whether athwart or above, the neighbouring bodies are carried at once into the void. For indeed they are set in motion by blows from the other side, nor can they themselves of their own accord rise upwards into the air.

[1022] To this there is added, that it may the more be able to come to pass, this further thing as an aid, yea, the motion is helped, because, as soon as the air in front of the ring is made rarer, and the place becomes more empty and void, it straightway comes to pass that all the air which has its place behind, drives, as it were, and pushes the ring forward. For the air which is set all around is for ever buffeting things; but it comes to pass that at times like this it pushes the iron forward, because on one side there is empty space, which receives the ring into itself. This air, of which I am telling you, finds its way in subtly through the countless pores of the iron right to its tiny parts, and thrusts and drives it on, as wind drives ship and sails. Again, all things must have air in their body seeing that they are of rare body, and the air is placed round and set close against all things. This air then, which is hidden away deep within the iron, is ever tossed about with restless motion, and therefore without doubt it buffets the ring and stirs it within; the ring, we may be sure, is carried towards the same side to which it has once moved headlong, struggling hard towards the empty spot.

[1042] It comes to pass, too, that the nature of iron retreats from this stone at times, and is wont to flee and follow turn by turn. Further, I have seen Samothracian iron rings even leap up, and at the same time iron filings move in a frenzy inside brass bowls, when this Magnesian stone was placed beneath: so eagerly is the iron seen to desire to flee from the stone. When the brass is placed between, so great a disturbance is brought about because, we may be sure, when the effluence of the brass has seized beforehand and occupied the open passages in the iron, afterwards comes the effluence of the stone, and finds all full in the iron, nor has it a path by which it may stream through as before. And so it is constrained to dash against it and beat with its wave upon the iron texture; and in this way it repels it from itself, and through the brass drives away that which without it it often sucks in.

[1056] Herein refrain from wondering that the effluence from this stone has not the power to drive other things in the same way. For in part they stand still by the force of their own weight, as for instance, gold; and partly, because they are of such rare body, that the effluence flies through untouched, they cannot be driven anywhere; among this kind is seen to be the substance of wood. The nature of iron then has its place between the two, and when it has taken in certain tiny bodies of brass, then it comes to pass that the Magnesian stones drive it on with their stream.

[1065] And yet these powers are not so alien to other things that I have only a scanty store of things of this kind, of which I can tell—things fitted just for each other and for naught besides. First you see that stones are stuck together only by mortar. Wood is united only by bulls' glue, so that the veins of boards more often gape than the bindings of the glue will loosen their hold. The juice born of the grape is willing to mingle with streams of water, though heavy pitch and light olive-oil refuse. And the purple tint of the shellfish is united only with the body of wool, yet so that it cannot be separated at all, no, not if you were to be at pains to restore it with Neptune's wave, no, nor if the whole sea should strive to wash it out with all its waves. Again,

is not there one thing only that binds gold to gold? is it not true that brass is joined to brass only by white lead? How many other cases might we find! What then? You have no need at all of long rambling roads, nor is it fitting that I should spend so much pains on this, but 'tis best shortly in a few words to include many cases. Those things, whose textures fall so aptly one upon the other that hollows fit solids, each in the one and the other, make the best joining. Sometimes, too, they may be held linked with one another, as it were, fastened by rings and hooks; as is seen to be more the case with this stone and the iron.

[1090] Now what is the law of plagues, and from what cause on a sudden the force of disease can arise and gather deadly destruction for the race of men and the herds of cattle, I will unfold. First I have shown before that there are seeds of many things which are helpful to our life, and on the other hand it must needs be that many fly about which cause disease and death. And when by chance they have happened to gather and distemper the sky, then the air becomes full of disease. And all that force of disease and pestilence either comes from without the world through the sky above, as do clouds and mists, or else often it gathers and rises up from the earth itself, when, full of moisture, it has contracted foulness, smitten by unseasonable rains or suns.

[1103] Do you not see, too, that those who journey far from their home and country are assailed by the strangeness of the climate and the water, just because things are far different? For what a difference may we suppose there is between the climate the Britons know and that which is in Egypt, where the axis of the world slants crippled; what difference between the climate in Pontus and at Gades, and so right on to the black races of men with their sunburnt colour? And as we see these four climates at the four winds and quarters of the sky thus diverse one from the other, so the colour and face of the men are seen to vary greatly, and diseases too to attack the diverse races each after their kind. There is the elephant disease, which arises along the streams of the Nile in mid Egypt, and in no other place. In Attica the feet are assailed, and the eyes in the Achaean country. And so each place is harmful to different parts and limbs: the varying air is the cause.

[1119] Wherefore, when an atmosphere, which chances to be noxious to us, sets itself in motion, and harmful air begins to creep forward, just as cloud and mist crawls on little by little and distempers all, wherever it advances, and brings about change, it comes to pass also, that when at last it comes to our sky, it corrupts it and makes it like itself, and noxious to us.

[1125] And so this strange destruction and pestilence suddenly falls upon the waters or settles even on the crops or on other food of men or fodder of the flocks; or else this force remains poised in the air itself, and, when we draw in these mingled airs as we breathe, it must needs be that we suck in these plagues with them into our body. In like manner the pestilence falls too often on the cattle, and sickness also on the lazy bleating sheep. Nor does it matter whether we pass into spots hostile to us and change the vesture of the sky, or whether nature attacking us brings a corrupt sky upon us, or something which we are not accustomed to feel, which can assail us by its first coming.

[1138] Such a cause of plague, such a deadly influence, once in the country of Cecrops filled the fields with dead and emptied the streets, draining the city of its citizens. For it arose deep within the country of Egypt, and came, traversing much sky and floating fields, and brooded at last over all the people of Pandion. Then troop by troop they were given over to disease and death.

[1145] First of all they felt the head burning with heat, and both eyes red with a glare shot over them. The throat, too, blackened inside, would sweat with blood, and the path of the voice was blocked and choked with ulcers, and the tongue, the mind's spokesman, would ooze with gore, weakened with pain, heavy in movement, rough to touch. Then, when through the throat the force of disease had filled the breast and had streamed on right into the pained heart of the sick, then indeed all the fastnesses of life were loosened. Their breath rolled out a noisome smell from the mouth, like the stench of rotting carcasses thrown out of doors. And straightway all the strength of the mind and the whole body grew faint, as though now on the very threshold of death. And aching anguish went ever in the train of their unbearable suffering, and lamentation, mingled with sobbing. And a constant retching, ever and again, by night and day, would constrain them continually to spasms in sinews and limbs, and would utterly break them down, wearing them out, full weary

before.

[1163] And yet in none could you see the topmost skin on the surface of the body burning with exceeding heat, but rather the body offered a lukewarm touch to the hands and at the same time all was red as though with the scar of ulcers, as it is when the holy fire spreads through the limbs. But the inward parts of the men were burning to the bones, a flame was burning within the stomach as in a furnace. There was nothing light or thin that you could apply to the limbs of any to do him good, but ever only wind and cold. Some would cast their limbs, burning with disease, into the icy streams, hurling their naked body into the waters. Many leapt headlong deep into the waters of wells, reaching the water with their very mouth agape: a parching thirst, that knew no slaking, soaking their bodies, made a great draught no better than a few drops.

[1178] Nor was there any respite from suffering; their bodies lay there foredone. The healers' art muttered low in silent fear, when indeed again and again they would turn on them their eyes burning with disease and reft of sleep.

[1182] And many more signs of death were afforded then: the understanding of the mind distraught with pain and panic, the gloomy brow, the fierce frenzied face, and the ears too plagued and beset with noises, the breath quickened or drawn rarely and very deep, and the wet sweat glistening dank over the neck, the spittle thin and tiny, tainted with a tinge of yellow and salt, scarcely brought up through the throat with a hoarse cough. Then in the hands the sinews ceased not to contract and the limbs to tremble, and cold to come up little by little from the feet. Likewise, even till the last moment, the nostrils were pinched, and the tip of the nose sharp and thin, the eyes hollowed, the temples sunk, the skin cold and hard, a grin on the set face, the forehead tense and swollen. And not long afterwards the limbs would lie stretched stiff in death. And usually on the eighth day of the shining sunlight, or else beneath his ninth torch, they would yield up their life.

[1199] And if any of them even so had avoided the doom of death, yet afterwards wasting and death would await him with noisome ulcers, and a black flux from the bowels, or else often with aching head a flow of tainted blood would pour from his choked nostrils: into this would stream all the strength and the body of the man. Or again, when a man had escaped this fierce outpouring of corrupt blood, yet the disease would make its way into his sinews and limbs, and even into the very organs of his body. And some in heavy fear of the threshold of death would live on, bereft of these parts by the knife, and not a few lingered in life without hands or feet and some lost their eyes. So firmly had the sharp fear of death got hold on them. On some, too, forgetfulness of all things seized, so that they could not even know themselves.

[1215] And though bodies piled on bodies lay in numbers unburied on the ground, yet the race of birds and wild beasts either would range far away, to escape the bitter stench, or, when they had tasted, would fall drooping in quick-coming death. And indeed in those days hardly would any bird appear at all, nor would the gloomy race of wild beasts issue from the woods. Full many would droop in disease and die. More than all the faithful strength of dogs, fighting hard, would lay down their lives, strewn about every street; for the power of disease would wrest the life from their limbs.

[1225] Funerals deserted, unattended, were hurried on almost in rivalry. Nor was any sure kind of remedy afforded for all alike; for that which had granted to one strength to breathe in his mouth the life-giving breezes of air, and to gaze upon the quarters of the sky, was destruction to others, and made death ready for them.

[1230] And herein was one thing pitiful and exceeding full of anguish, that as each man saw himself caught in the toils of the plague, so that he was condemned to death, losing courage he would lie with grieving heart; looking for death to come he would breathe out his spirit straightway. For indeed, at no time would the contagion of the greedy plague cease to lay hold on one after the other, as though they were woolly flocks or horned herds. And this above all heaped death on death. For all who shunned to visit their own sick, over-greedy of life and fearful of death, were punished a while afterwards by slaughtering neglect with a death hard and shameful, abandoned and reft of help. But those who had stayed near at hand would die by contagion and the toil, which shame would then constrain them to undergo, and the appealing voice of the weary, mingled with the voice of complaining. And so all the nobler among them suffered this manner of death.

[1247] and one upon others, as they vied in burying the crowd of their dead: worn out with weeping and wailing they would return; and the greater part would take to their bed from grief. Nor could one man be found, whom at this awful season neither disease touched nor death nor mourning.

[1252] Moreover, by now the shepherd and every herdsman, and likewise the sturdy steersman of the curving plough, would fall drooping, and their bodies would lie thrust together into the recess of a hut, given over to death by poverty and disease. On lifeless children you might often have seen the lifeless bodies of parents, and again, children breathing out their life upon mothers and fathers.

[1259] And in no small degree that affliction streamed from the fields into the city, brought by the drooping crowd of countrymen coming together diseased from every quarter. They would fill all places, all houses; and so all the more, packed in stifling heat, death piled them up in heaps. Many bodies, laid low by thirst and rolled forward through the streets, lay strewn at the fountains of water, the breath of life shut off from them by the exceeding delight of the water, and many in full view throughout the public places and the streets you might have seen, their limbs drooping on their half-dead body, filthy with stench and covered with rags, dying through the foulness of their body, only skin on bones, wellnigh buried already in noisome ulcers and dirt.

[1272] Again, death had filled all the sacred shrines of the gods with lifeless bodies, and all the temples of the heavenly ones remained everywhere cumbered with carcasses; for these places the guardians had filled with guests. For indeed by now the religion of the gods and their godhead was not counted for much: the grief of the moment overwhelmed it all. Nor did the old rites of burial continue in the city, with which aforesaid this people had ever been wont to be buried; for the whole people was disordered and in panic, and every man sorrowing buried his dead, laid out as best he could. And to many things the sudden calamity and filthy poverty prompted men. For with great clamoring they would place their own kin on the high-piled pyres of others, and set the torches to them, often wrangling with much bloodshed, rather than abandon the bodies.

END OF POEM