THE

BOOK OF WISDOM

UNSEALING THE

MENTAL, SOCIAL AND PHYSICAL

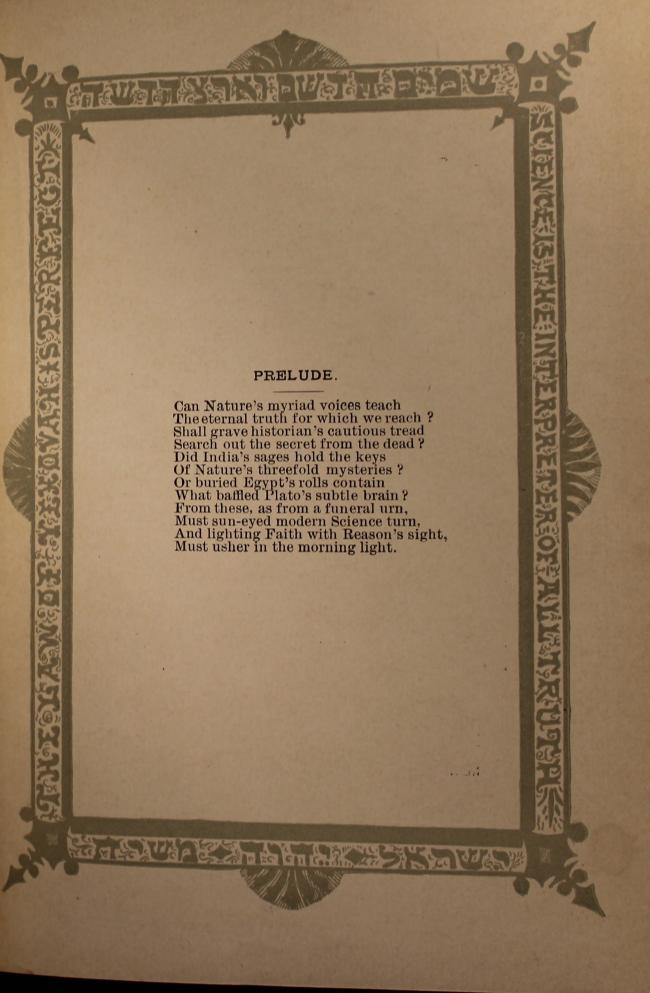
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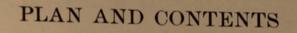
SEPHER HAKEYIM.

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1882-3468.

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OF THE

BOOK OF WISDOM.

EXORDIUM.

The vision of Science. The conditions of universal happiness. Three great Factors of Life. The two hands which do the World's work. The mission and place of Science. Design of this Book. Twelve great Laws of Life. The Bible and Science. The conception and definition of natural Law. Science and Common Sense. The Criterion or tests of Truth.

CHAPTER FIRST.

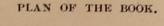
PHYSICAL LIFE OF MAN.

The artizans of Life. The basis of Mind and its laws. Organs of Nutrition, and classes of Food. Vital action. The Muscular System. How muscles contract. The Nervous System and the Senses. Nerve centres and fibres. Or gans of Sense. The Eye, the Ear, and the Skin. Structure of the nerve cells The batteries of Life and Thought. The form, plan, and texture of the brain. Conditions of brain-power. The centers of brain action. Tabular analysis of the functions of life.

CHAPTER SECOND.

THE TRINITY.

Ancient ideas in regard to Sacred Numbers. The music of the Spheres not a figure of speech. Evidence from chem-



istry and Natural Philosophy. The Bible constructed upon sacred numbers. Analysis and meaning of all the more important of these. The Sacred Name and its meaning. Relations of the three members of a Trinity. The threefold nature of man. Wisdom Love, and Will. The Harp of Lite and its octaves. How the Body affects the Brain. The Human Face. What we may read there. Description of seventy-two Signs of Character in the Face and in the Human Form. The Hand, with its definite signs of character.

CHAPTER THIRD.

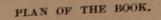
MENTAL MECHANISM.

Beauty and its significance. Celestial Mechanics. The forces of the Ellipse. Three Ellipses of the Brain The minor axis, mental balance. Sex in the ellipse. Three Brain-currents. Mental Geometry. Analysis of Beauty. Proportions of the Human Form. The scale of twelve squares. The Bible Measure of a Man. The Head measured by the same scale.

CHAPTER FOURTH.

THE CROWN OF LIFE.

Theory of wave-movement. Atoms of Spirit and of Matter. Polarity and vibration of Atoms. Why Spirit has no weight. Radiant waves of Nerve force. Description of the form of the waves of Thought, Feeling, and of Volition. Blending of spiritual spheres. Influence of one mind over another. The mental telegraph. Philosophy of Mind-Reading explained. Conversion of Forces. Control of the Will over the Forces. Control of the Will over the mesmeric currents. Impressions on nerve-cells and nature of Memory. Its failure and its cultivation. Explanation of Dreaming. The colors of nerve-light. Effects of each color on the different faculties and upon the body. The Crown of Spiritual light, and how it is won. Philosophy of carressing. The earth's spiritual atmosphere.



CHAPTER FIFTH.

POLATION.

The rythm of human life. Spheres of contrast in polar faculties. The earthly and the heavenly side of man. Responses of the mental faculties. The organs in Pairs. Zones of mental life. Law of mental Unity. Mental Chords, octaves, fifths, and thirds. A Theory and explanation of mental action. Musical structure of the mind. The Mimetic law. Expression in Gestures, with an explanation and description of those belonging to all the faculties. The truth of figures of speech and poetry.

CHAPTER SIXTH.

PHASES OF LIFE.

The law of upward advancement. Successive phases of embryonic life. Repetition of Parental types. Influence of prenatal conditions upon the development of character. Steps in the formation of the brain. Ruling faculties in the phase of Childhood. Transition organs of the period of Youth. Dominant organs in Mature life. The phase of Senility.

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The drama of human history and the dominion of law. The testimony of geology. Ages of Life in the earth. Age of Granite, of Molluscs, of Fishes, of Coal, Reptiles, Mammals, and of Man. Law of brain-dominance in man Phases of national life. Rule of the base faculties and final triumph of the higher. The successive steps of Intellectual, of Social, and of Individual development in past ages. The Reign of Peace. The seven forms of Civilization; Egyptian, Mongolian, Semitic, Hindoo, Greco-Roman, Christian and Messian. The true structure of society. Its foundation in the wants of man. Complete representation. Specialization of functions in society. The methods of social science.

PLAN OF THE BOOK.

CHAPTER EIGHTH.

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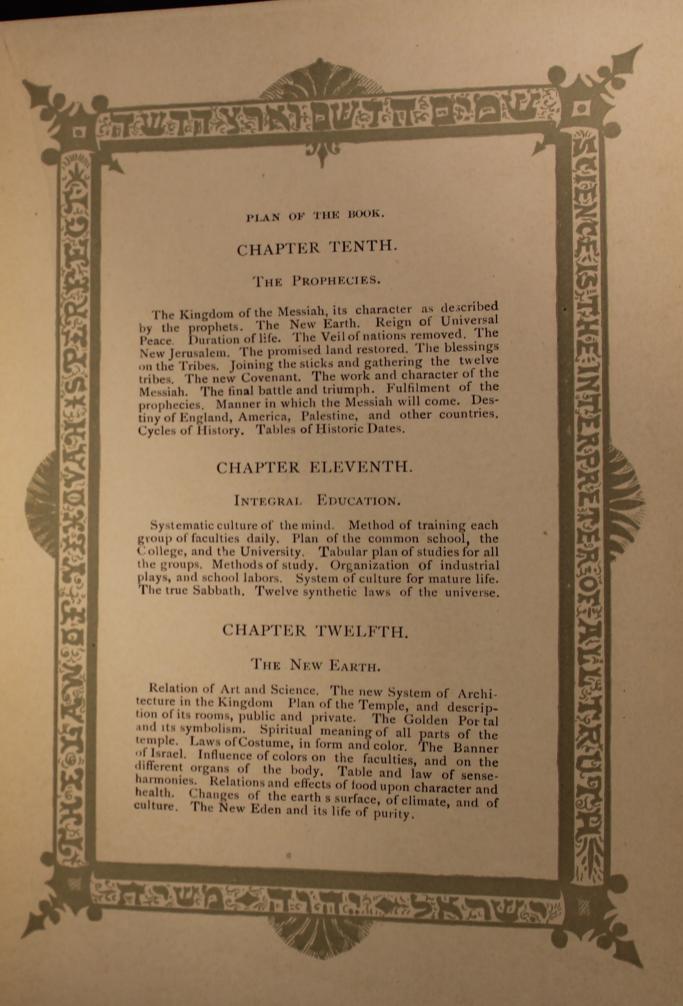
LIFE IN ISRAEL.

The archetype of society. Formation of the Bands of Israel. Unity of plan. The twelve laws of society. Thirty-six sub-departments. Social authority and freedom National rights. Election of officers. Rights of wealth. Universal employment of members. Grouping of members according to character. Complementary spheres of man and woman. Laws of marriage and love. Conditions of heredity. Work in the home. Divisions of house-work. Exchange and distribution of products Organized commerce Conventions and representation. The definition and scope of religion. The law of unselfishness. Unity of social life. Transition forms in society.

CHAPTER NINTH.

THE SEALS OF TRUTH.

The Great Doctrines of the Bible shown under seven seals. Interpretation and proof of these by science. Plan of the New Jerusalem, and meaning of its twelve parts. Places of the twelve tribes of Israel in the City. Character of the tribes. Why Israel was the chosen people. The measure of the City and the measure of man. Mathematical proof of Inspiration. Gathering and restoring the tribes. Scientific means of Identification. Restoration of Israel to Palestine. Sealing of all nations in tribes. The Throne in Heaven described. The second and third seals. Nature of Sacrifices, and their restoration. True theory of Atonement. Obedience and law. Length of life. The Tree of Life and the Garden of Eden. History of its discovery. Description of its twelve fruits. Fifth Seal; doctrine of the Resurrection. The spiritual change of man. The earthly and the heavenly sphere. Law of Symbolism. Law and meaning of the Cross. Symbolism of the serpent. Interpretation of prophecy. Nature of Deity. True ideas of the Infinite, of space and of time. Golden words of the great Teachers.



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BOBY RANGE BY



SUENCE IS THE INTERPRETER OF AUTOR IN RUPING

SEPHERVA. The Design of this Book is to describe the Constitution of Man in such a way as to show that its twelve great laws form the living framework of a perfect System of Human Life. They solve all the great problems which concern the present happiness and the future destiny of man. And they bring all this within the range of such scientific proof as can be understood alike by all persons. All through the historic ages, and among all civilized nations, we may find fragments of the truths which are united under the light of these twelve laws into one clear System of Life. They have been elaborated by the work of many hands. But they were only fragments until the uniting laws were discovered. This work has been done in our own time. Upon the solid groundwork of physical science, a series of brilliant discoveries have placed before us the interior mechanism of man's complex life, in all of its beauty and perfection. But these discoveries gave a still more surprising result. For they furnished the very first explanation of the great Doctrines of the Bible, and क न न न न महार मा of the character, the mission, and the symbols of the ancient nation of Israel, and they show why its record stands as the central fact in the world's history. The author occupied twelve years of close and careful labor in working out the details and demonstrations of these laws, and in comparing the immense mass of facts upon which they rest. Not only all human history and experience, but every branch of science and art, was laid under contribution in this extended examination.

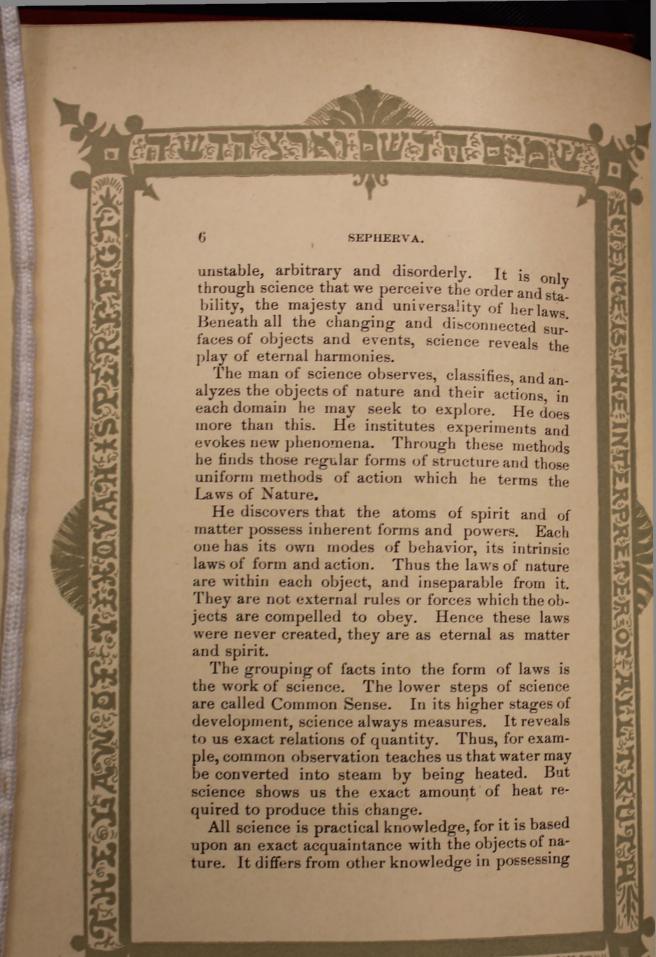
Three great factors have been at work in the life of individuals and of nations. These factors are the Intellect, the Feelings, and the Will of man. They have produced Knowledge, Social life, and Industry.

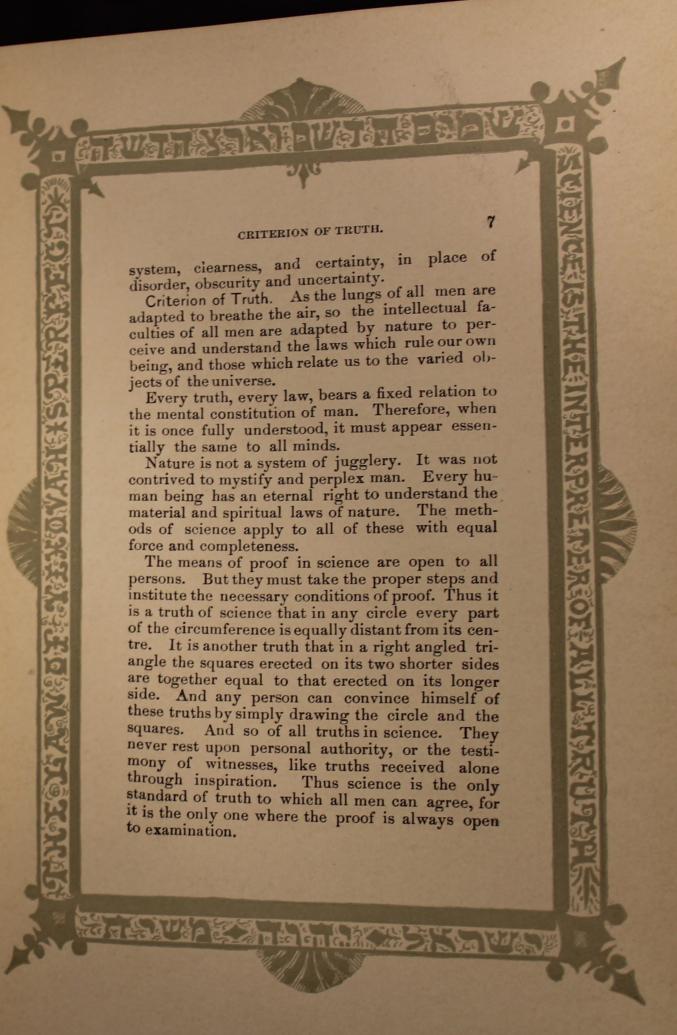
Knowledge and Labor are the two hands with which the work of the world is done. They are the two instruments through which the Feelings must always be expressed. The office of Science, in its maturity, is not to suppress the emotions of the human heart. The highest work of science is to lift the veil of mystery from our inner life, and to furnish a clear and supreme guide in all the forms of personal conduct, and in the structure of civil society.

The Science of Man opens the gates of Paradise. It can alone make us read aright the lessons of past experience; it alone can interpret the magnificent visions of our future destiny. Science here lifts us from the feebleness of faith to the high power of certain knowledge. It allies itself with religion; it gives eyes to faith, and wings to art. It embodies and immortalizes all that is precious of past inspirations and attainments.

The most direct proof of the truths stated in this book, is found in the fact that they precisely and clearly explain the phenomena of our inner and outer life. The detailed proof of these laws would fill many volumes. The most important laws in this book rest upon mathematical proof, and however condensed the demonstrations given, they are conclusive and final, and they cannot be refuted by logical forms of argument. Each one will stand the most rigorous tests of science.

The Conception of Law. In the childhood of the world, man looked upon nature everywhere as





It is true that men differ in their capacity to investigate. The scientist makes allowance for this difference under the head of Personal Equation.

If we impose any doctrine or belief upon any person, then we violate a law of his reason. For through that faculty he has an eternal right to examine any and every idea presented to him, and to have its truth clearly demonstrated before he is obliged to accept it. When such demonstration is made, then he accepts it by a necessity of his intellectual nature. No person actuated by the true spirit of science could ever persecute those who differed from themselves, or seek by physical force to make others adopt their ideas and practi-

Forms of Knowledge. In classifying the branches of knowledge for the purpose of study, two methods present themselves. By the older and now prevalent mode we should form three great branches, Art, Letters, and Science, and arrange the subdivisions of these as in the table "Analysis of Knowledge." The central branch is the storehouse of knowledge, while Science explains laws, and Art applies these in the practical work of life.

Or, as defined by an eminent Scientist:

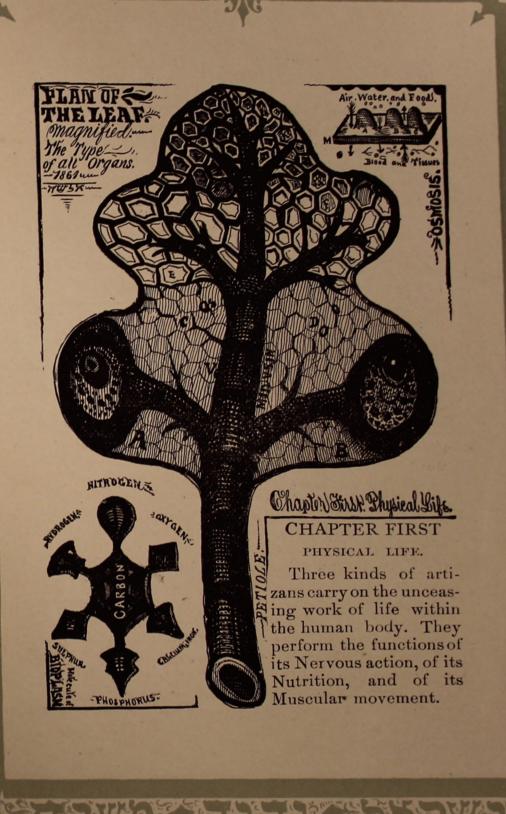
Ordinary knowledge expresses in a single formula a particular truth respecting a particular phenomenon.

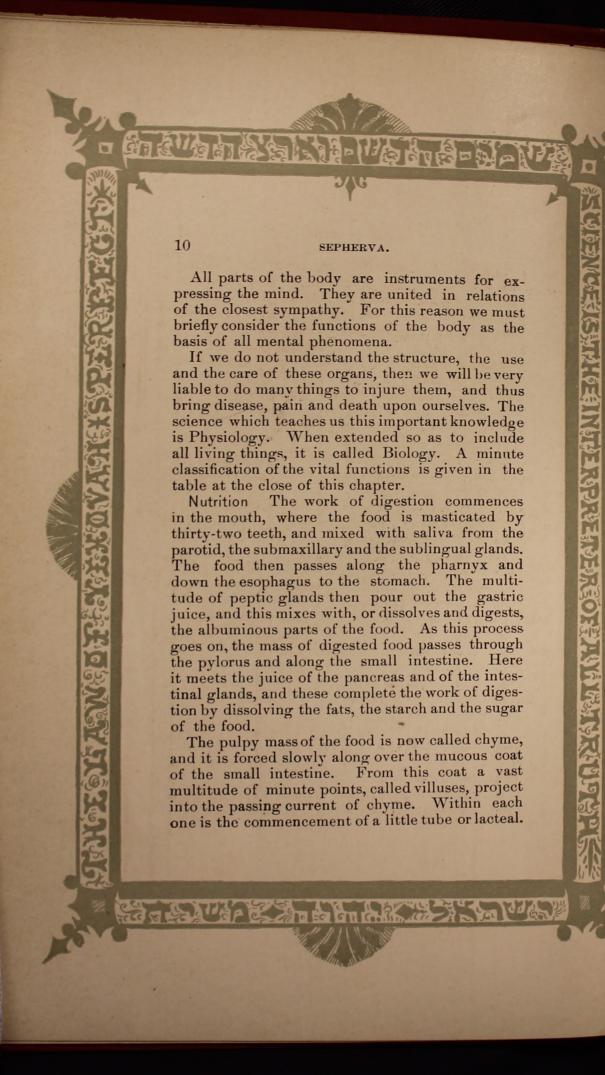
Science expresses in a single formula a general truth respecting an entire order of phenomena.

Philosophy expresses in single formula a uni-

versal truth respecting all phenomena.

Art consists of rules by which work is to be done. Skill is the mental and physical qualification required for the application of these rules.





The lacteals absorb the nutritious part of the food and carry it through the mesenteric glands to the chyle cyst. These glands modify the character of the current of chyle. They commence the work of organizing its materials into plastic cells. Reaching the chyle cyst, the milky liquid is carried up the thoracic duct, to the left side of the neck, where it is poured into the left subclavian vein. The chyle is thus mixed with the current of venous blood, and carried to the heart. Before tracing this farther, we must briefly consider the character of the chyle itself.

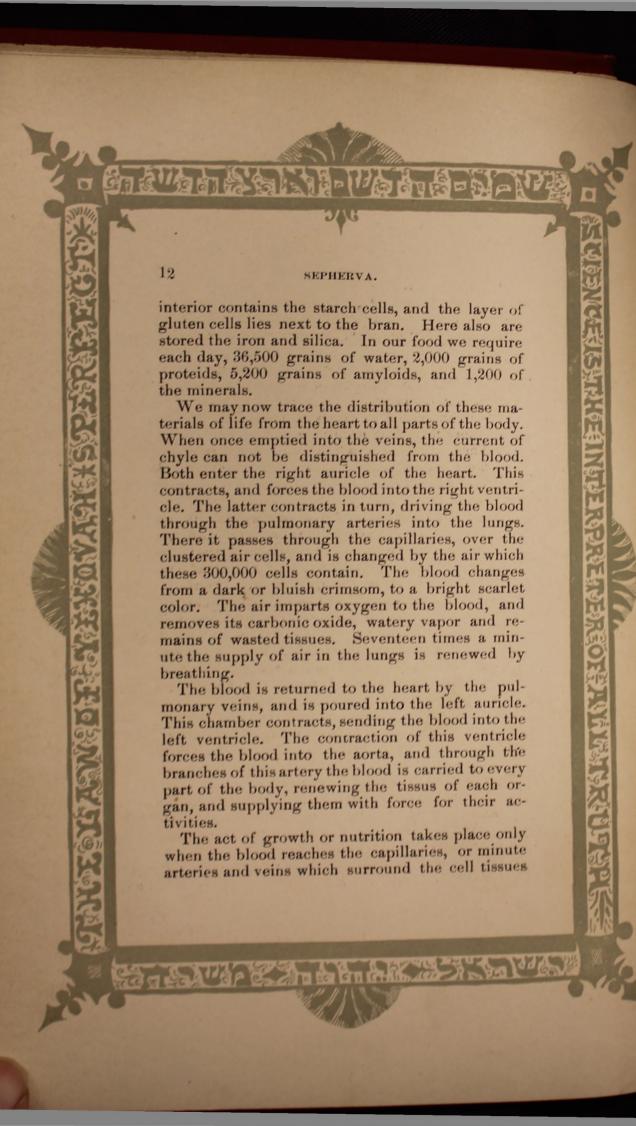
Our food contains three groups of elements:

First, the Proteid group, as gluten, albumen, fibrine and caseine. Each of these contain carbon, oxygen, hydrogen, and nitrogen, with lesser proportions of phosphorus, sulphur and mineral salts, as shown in the molecule of Bioplasm. The proteid group of food contains all the essential elements of nutrition. The tissues of the body have the same chemical composition, and they can all be formed from its materials.

Second, the Amyloid group includes starch, gum, sugar and the oils and fats. Each of these contains carbon, oxygen and hydrogen. They furnish elements to be used in forming the fats of the body, and for muscular action. In the process of digestion starch is changed to glucose before it can be assimilated.

Third, the Mineral group, including air, water and sodium chloride. Water contains oxygen and hydrogen, and air contains oxygen, nitrogen and traces of carbonic oxide.

A grain of wheat cut across, will show us how these elements are stored up in the food. The



of all the organs. Nutrition involves osmotic action, or the passage of liquids and gases through basement membranes, covered with epithelial cells.

The blood is sent to all parts of the body by the arteries, and it is returned to the heart through the

veins and lymphatics.

The veins from the intestines, stomach, spleen and kidneys, unite to form the portal vein. This enters the liver, branches around the hepatic cells, and these separate the bile and sugar from the passing current. The venous blood then goes to the heart.

The kidneys separate urea, water and salts, from arterial blood. The perspiratory glands of the skin also eliminate part of the waste products of

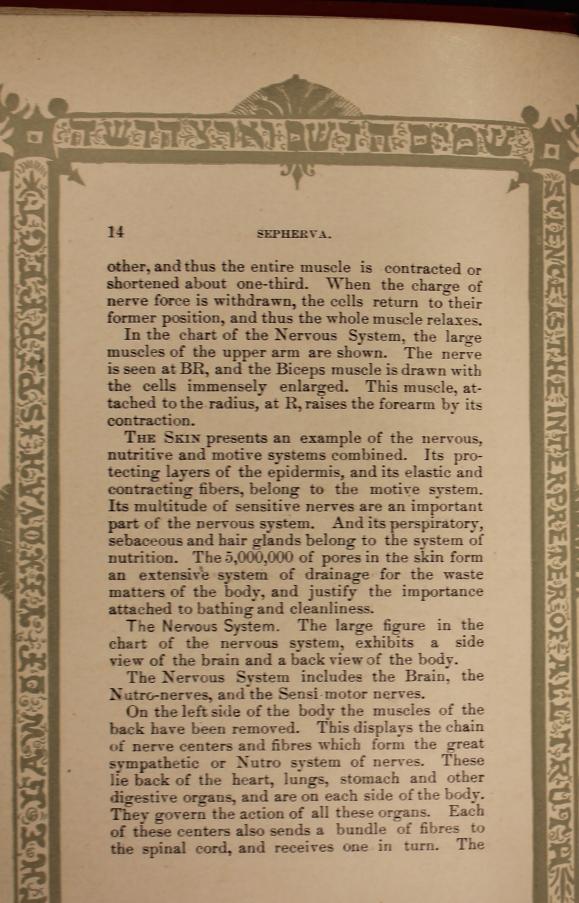
the system.

In the corpuscles of the kidneys, the Renal artery is seen to end in a tuft, within the Glomerulus. The latter is formed of layers of cells, which separate the secretion of the kidneys. This is passed along the uriniferous tube of each minute lobule, and thence into the pelvis of the kidney, and along the ureter to the bladder, to be finally eliminated from the body.

Motive System. The four hundred and seventy muscles of the human body are disposed in layers. They consist of bundles of minute cells; as shown in Figure 1. They are attached to the bones as

levers, and move them by contraction.

A current of nerve force is sent from the brain, or from other nerve centers, and this polarizes the muscle cells. One end of each cell is made negative, and the other end positive. When thus oppositely charged, the two ends approach each



chief center of the nutro system, is the gasterus or solar plexus and ganglion, back of the Stomach, marked G. The Cardiacus is the center back of the heart, and the Pelvicus is the chief center of the pelvis.

Sensi-motors. The spinal cord consists of a vast multitude of fibres and cells. The motor fibres branch off to the muscles of the body, and the sensory fibres to the skin. Other bundles of sensory and motor fibres, like those in the face,

In the eye, the nerves terminate in rods and cones 1-10,000th of an inch in diameter. See figure 7. These vibrate to the different waves of light, and carry into the brain the picture formed on the black pigment of the eye. This is the vi-

tal part of vision.

The nerves in the ear are distributed to the otoliths or ear stones; to the ends of the semi-circular canals; and to the vibrating fibres of Corti in the cochlea. These parts perceive the intensity, quality and pitch of sounds.

The nerves of Touch terminate in the microscopic papilla of the skin as seen in figure 6.

Centers. In all the centers of nervous action we find cells and fibres associated. The structure of these may be understood from figure 5 in the engraving of the Nervous System. This figure is magnified 350 diameters. Both the fibres and the cells, in the brain, have an average diameter of about the 1-1500th part of an inch. This would give at least 3,000,000,000,000, in each hemisphere of the brain.

The nerve cell has a nucleus, surrounded by layers of membranes and granules, and traversed

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by delicate prolongations of the fibres. From the cell processes extend and connect it with adjacent cells.

The nerve fibre, or to describe it more accurately, nerve tubule, contains a conducting substance, the axis cylinder, or band axis. A membrane encloses this axis, and is in turn surrounded by an insulating sheath. A part of the sheath has been cut away so as to show the axis. The tubule is filled with a conducting substance, because it is a current motion or nerve force, and not a liquid which is to be carried along its channel.

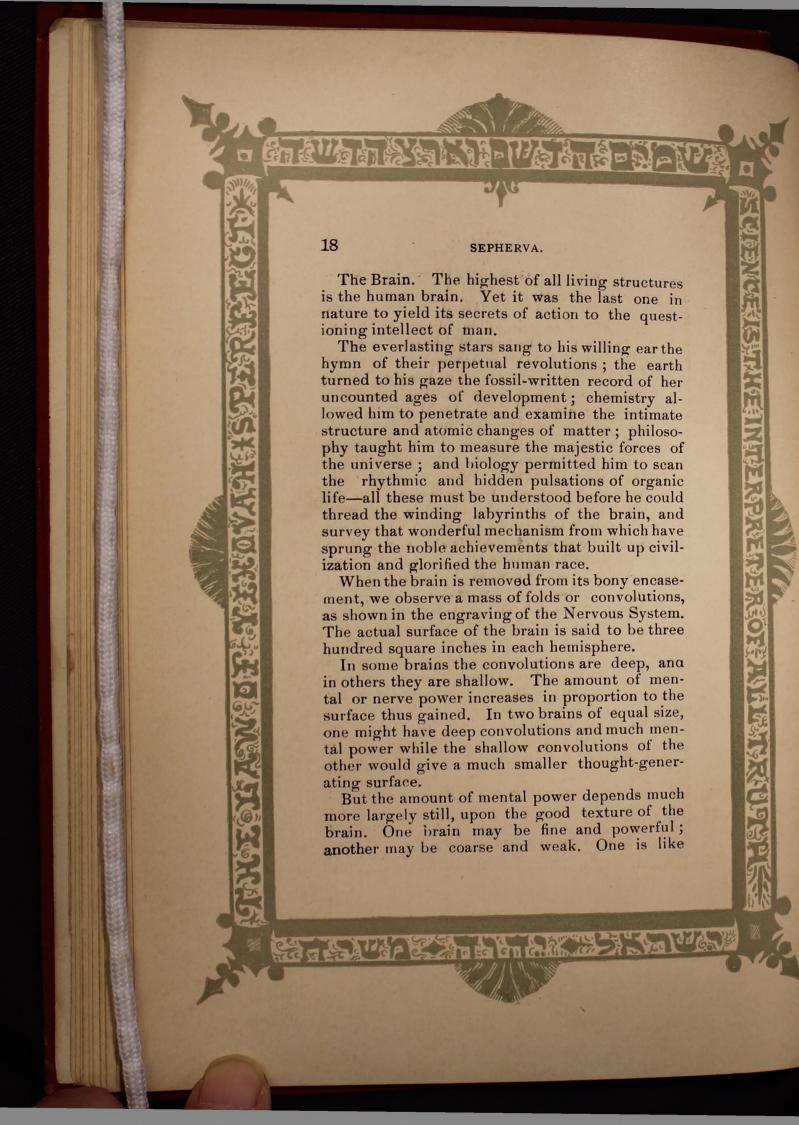
The sheath insulates the nerve current as it flows along the cylinder so that no part of the current may escape to the tubules which lie beside it. But when a current reaches a center, where the cells are, it may readily flow from one cell to another, both through the cell walls and through the processes which connect the cells with each

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The nerve cells are like the magnetic battery, and the fibres are like the conducting wires of the telegraph.

The office of the nerve cells is to receive and retain impressions, and to originate or modify nerve force, while the fibres are the channels for its transmission.

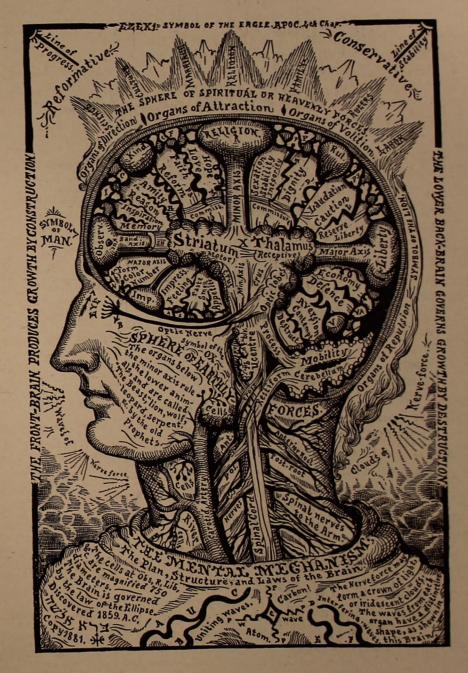
Along these conducting tubes the waves of thought, of feeling, and of will, flow swiftly in delicate lines of living light. Touch your finger, and the current will flow up the nerves of the hand and arm until it reaches the cells of the spinal cord and the brain, and makes its impression on them. Then, and not till then, you are conscious that the finger has been touched.



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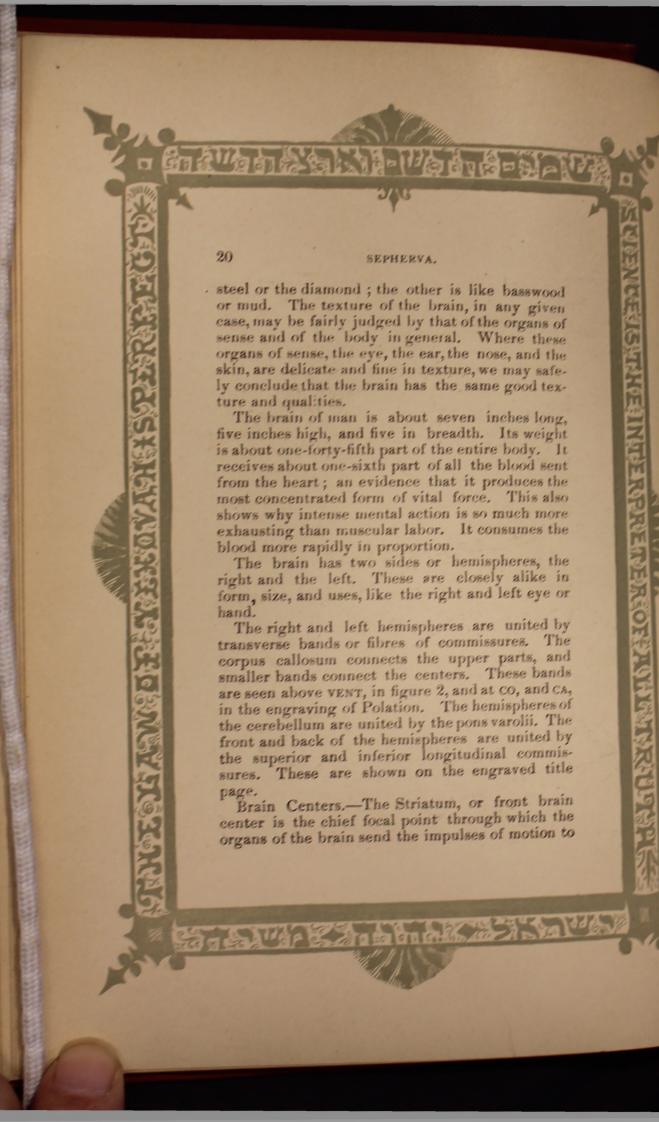
PLAN OF THE BRAIN.

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the muscles. It radiates force to all of the mental organs and receives from them. The Striatum, like the Thalamus, is a mass of nerve cells, with fibers passing to, through, and from it.

The Thalamus, or back brain centre is the chief point for receiving the incoming currents, containing the impressions which have been made on the organs of sense. All of the mental organs at their inner ends terminate in these two centers.

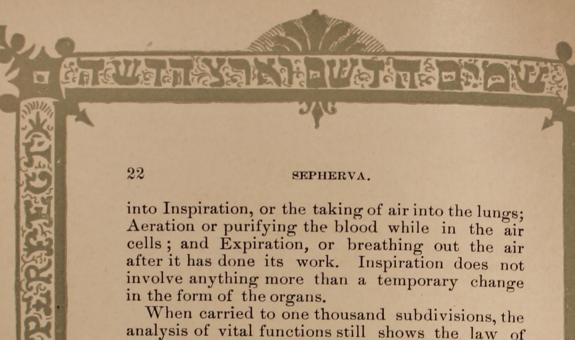
The Striatum and Thalamus thus stand between the mental organs on the one hand, and the outer world of sense and motion on the other. In passing through the centres the nerve force is usually modified, and more or less of all the impressions are stored in them.

Below the brain, are collections of cells which form a great center through which the brain acts on the body and the body acts on the brain. It is named the Ucenter.

The cerebellum has a center of its own, and it is connected in action with the larger brain by a process of fibres. It chiefly forms the organ of mobility, controlling the muscles of locomotion.

Vital Trinities. In studying the table of vital functions, we shall perceive that each divides into three parts. One of these three is always central, and each of its two side members supports its action in a characteristic way. The general relation of the three is formal, static, and dynamic. For example, the *state* of the body is maintained by Nutrition; the *form* of its movements is determined by Nervation; and its *dynamic* expression is through Motation.

In some of these trinities, the form element is less marked. For example, Respiration divides



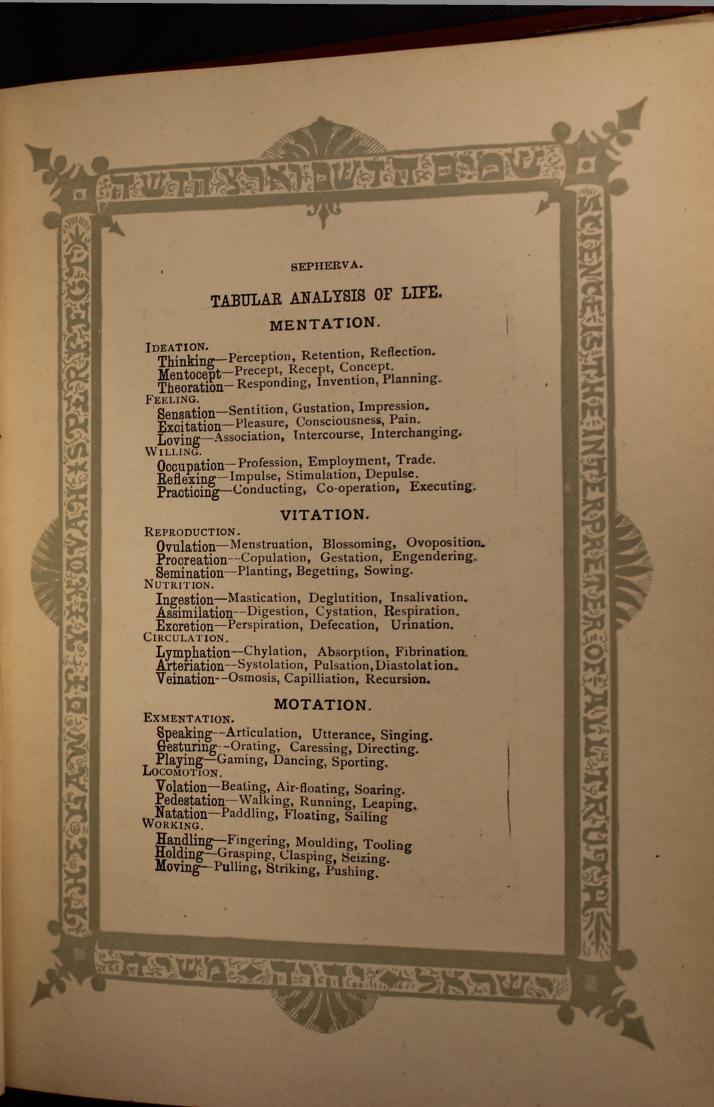
analysis of vital functions still shows the law of the trinity governing them all with imperative ex-One-third of these functions directly actness. employ the organs of the brain and mind. And each one of the other two-thirds is connected by exact and constant laws of sympathetic action with some definite mental faculty. A rigid scientific analysis therefore proves that the great law of the Trinity governs no less absolutely in the true classification of the mental faculties as exhibited in the next chapter. Theological writers have speculated in vain about the trinity, for they had not the slightest idea that there is a fixed and welldefined relation between the three members of any trinity, and that the trinity is in each person, yea more, an essential part of the framework of the universe.

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The vital organs show a trinal division in a no less conspicuous way. Thus the muscles divide according to their direction of movement into Flexors, Spincters, and Extensors; by their nervous relations they are Voluntary, Mixed, and Involuntary; and in their structure they are Striated, Non-striated, and Elastic tissue.

Units of Life. The microscope shows us that the tissues of the body, from delicate membranes to solid bones, are composed of minute cells. These are its units of structure.

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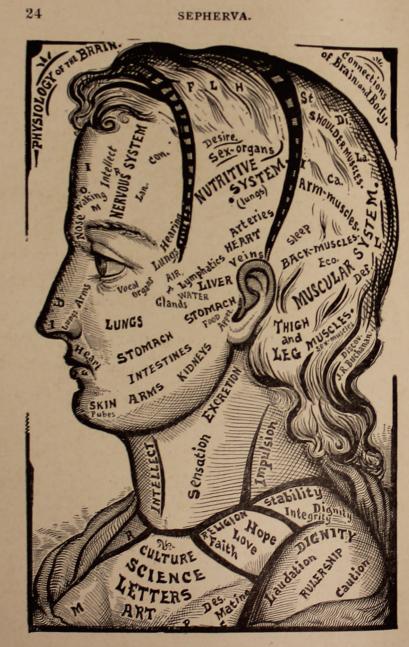


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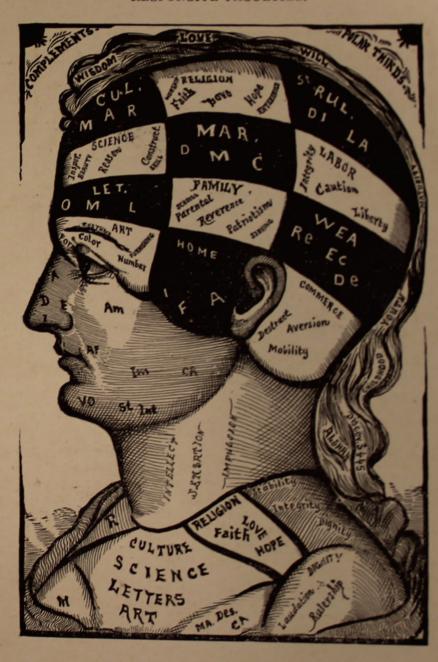
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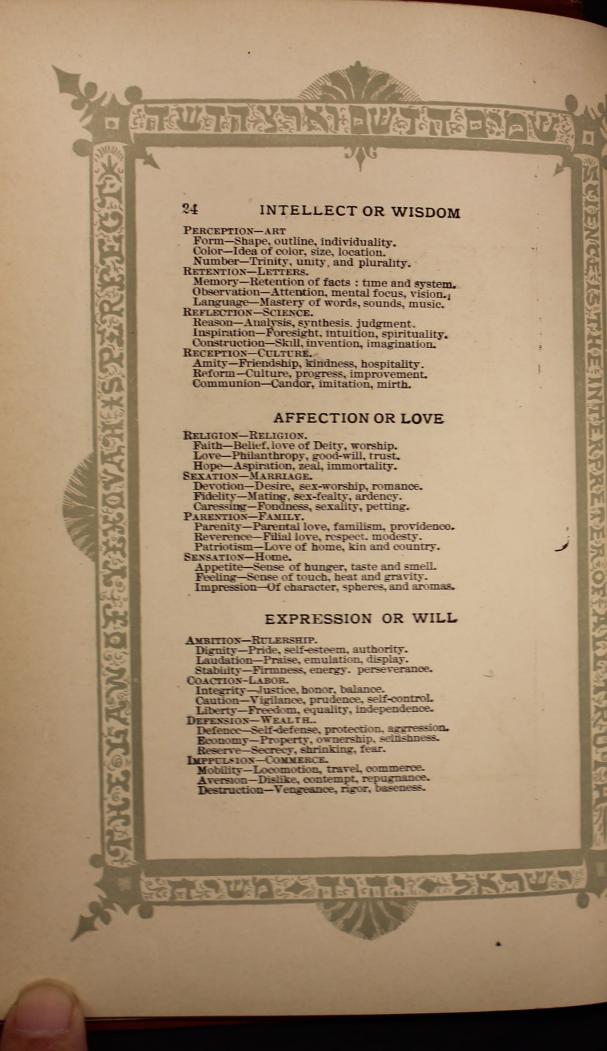
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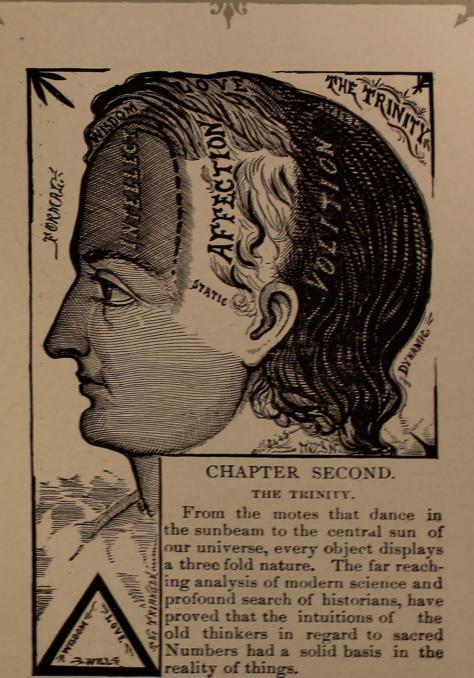
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Modern chemistry rests upon the law of Definite Proportions. That law teaches that all the atoms of matter are grouped according to fixed numbers. Each kind of atom has a certain number of poles or points of attraction, and these limit the number and kind of other atoms with which it may unite. Thus in the molecule of Bioplasm the carbon atom in the center is shown with six poles, and at each one of these is found another kind of atom; of oxygen, of nitrogen, of hydrogen, &c.

If we turn to any other branch of physical science we shall find the law of definite numbers ruling with absolute sway. No object is too minute and none too magnificent to be linked in its measured harmonies. The mechanical forces are of three kinds,—the Direct, the Lever, and the Inclined plane. The direct includes the pull, the blow, and the push. The lever in its simplest form has three elements, the fulcrum, weight and power.

The application of this law to the entire range of human knowledge, will be seen in the extended tables of Universal Synthesis.

Meaning of Numbers. Without entering into elaborate proofs, the meaning of the more import-

ant numbers is given here.

1. One is the number of unity, the beginning of every series, and the end of every synthesis.

2. Two is the number of duality. All the forces of nature are dual or polar. They are positive and receptive, masculine and feminine, active and passive, earthly and heavenly. By an inverse meaning, two is also the number of uncertainty or dubiety, as when we do not know which of two things to choose. By direct meaning, two stands for certainty or assurance, as the mouth of two witnesses. The repetition of a number intensifies its meaning. 777 shows the fullest measure of meaning in seven.

3. THREE is the number of simple completeness, the Trinity. In every actual unit there is also a trinity. The two wings of a trinity are dual; three includes two. The two wings without a center would be easily divided, the center unites them, makes the three a unit.

In the indivisible atoms of matter there are three dimensions, length, breadth and thickness. The organic cell has three elements, cell-wall, nucleus, and circulating contents.

4. Four represents simple organization, or structure, the crossing of two lines of force at right angles. In the crystal, the poles A, B, C, D, are its lines of construction. In Segmentation, the organic cell is polarized by the sperm-cell, and divided into four parts, A, B, C, E. Four is the number of Life, and of the Family—a father and mother, a son and a daughter. It represents the heart with its four chambers; the river of life with its four heads.

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12. Twelve is produced when two axial lines, like the major and the minor axis in the brain, each terminates in a trinity. It includes a family of trinities, four threes. It is the high number of organized, spiritual perfection. It is the mathematical basis of construction in the human head, and in the human form, as will be shown in the next chapter. It is the number of Social Structure and of the New Jerusalem, the center of all earthly interests.

5 and 7. The number twelve divides into Five,

as its material or lower side; and Seven, as its higher or spiritual side. In the head, the brain is seven-twelfths of the circle, and the face and body, its servants, are five-twelfths. In the brain, the fibres of seven groups point upward and those of five groups point downward. Five is the number of the hand, the four fingers with the thumb as a pivot of action. Hence five is the number of the covenant and of material law. Seven includes two trinities with one as a pivot to unite them.

6. Six has two trinities, but without a pivot. It stands for physical completeness, but lacks the spiritual bond of unity found in seven. 666 is the number of "the beast," of man under the reign of

his lower faculties.

8. Eight contains twice four, the number of life. Hence it indicates the renewal of life, the resurrection, or a union of the physical and the spiritual life. The two fours which form eight are incomplete, or lack dynamic power, until the third four is added, and this makes twelve. It is a general law that the Even numbers form the Structural Series, while the Odd numbers form the Dynamic Series, or, that relating to the exertion of force. The trinity is an odd number, and in the structure of the mind, the trinity of Wisdom, Love, and Will is made even by duplicating it in the two hemispheres of the brain. Seven candle-sticks symbolize spiritual force, the dynamic work of light.

9. NINE is the number of Judgment, and of Labor. Its three trinities count a triangle, three sides of a square, the builder's measure of judgment. Labor is the ninth group, counting from the base of the brain. The date 1881 would read

"The double judgment of the earthly and the heavenly of the past, and the judgment by judgment of the present. This number reads the same backwards and forwards, it is the dividing line between the past and the future.

10. TEN is the complete number of material

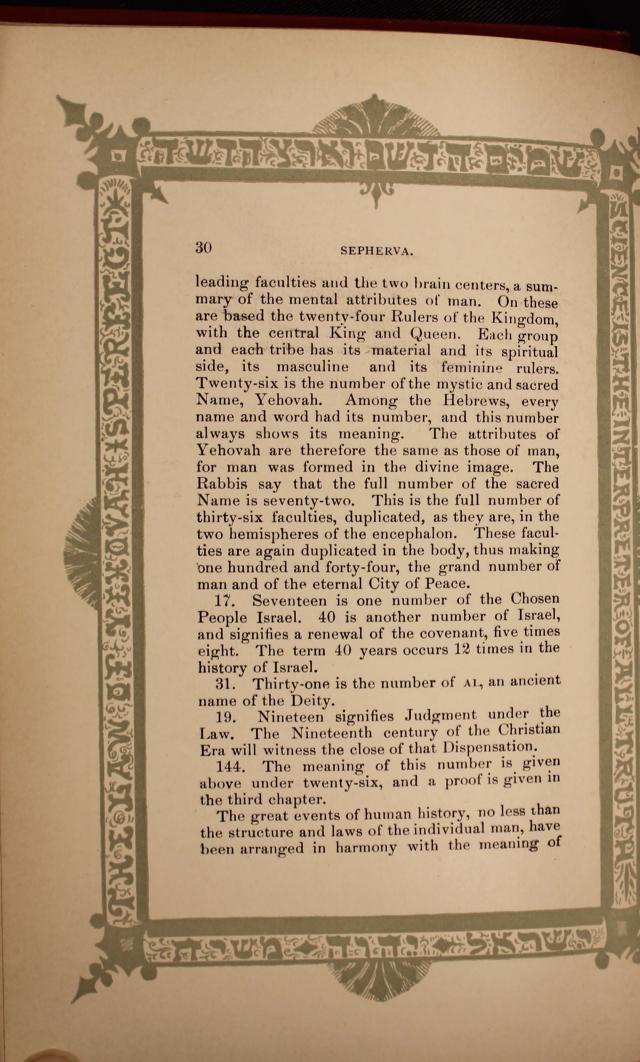
law, the duplicate of five.

11. ELEVEN indicates incompleteness, uncertainty, imperfection, or disorganization. Hence thirty-three, the years of Jesus, shows threefold uncertainty, and after three times six centuries, he

is still without a kingdom.

THIRTEEN contains twelve, with one for a The twelve groups of mental faculties pivot upon the brain centers. The twelve masculine faculties have their pivot in the back center or Thalamus, and the twelve feminine ones on the front center or Striatum. The twelve assistant faculties pivot in the Ucenter. The twelve tribes in the New Jerusalem have their center in the great Temple. The twelve Princes of Israel had their pivot in the King, High Priest, or Judge. In every 13, the thirteenth number must be central or pivotal. For if they are all of equal rank, there can be no true balancing of parts, all will be discord. If we look at the twelve-rayed sun, we see that its points balance each other in every direction. But if we draw one with thirteen rays, no two of them will balance each other. We see from this and from the law of the trinity, that the doctrine of Pivotal Numbers assumes a high degree of importance. But it was quite unknown to the older writers on numbers.

26. Twenty-six contains two twelves with a pivot for each. It represents the twenty-four



these numbers. These regular periods are best shown in the chronological tables.

THE TRINITY IN MIND.—The primary analysis of mental phenomena gives three divisions, Thought, Feeling, and Volition; or Wisdom, Love, and Will, These spring from the faculties of Intellect, Affection, and Expression. The intellect is directive, affection is attractive, and volition is impulsive.

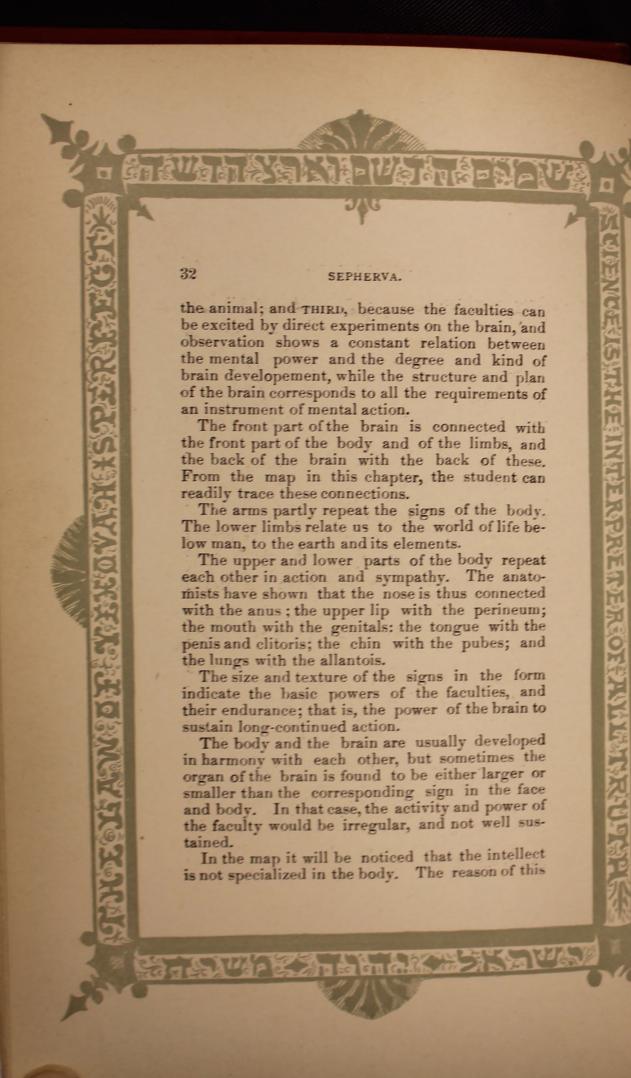
Each of these classes is based upon three divisions of the bodily functions. The intellect acts in close sympathy with the entire nervous system; affection acts with the organs of nutrition; and volition governs the motive system.

The division of the classes into twelve groups and thirty-six faculties is given in the table. Each faculty again subdivides into three parts. This analysis is sufficiently minute for the purposes of art and science.

The groups of Sensation, Culture, and Impulsion are transitional in character, and this leaves a trinity of groups in each class.

The Intellect is formal, it determines the forms of knowlege, of feeling, and of action. The Affections are static, they maintain and perpetuate the race and unity of man. The Will is dynamic, it applies the powers of man in all his social and physical activities.

Brain and Body.—The brain is the great central organ of the mind, of Thought, Feeling and Will. We know this, FIRST, because the nerves of feeling and motion, from all parts of the body, all lead to and from the brain; SECOND, because in vivisection the removal of the brain destroys all mental manifestations, but not the bodily life of



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is found in the fact that the body is much more an instrument of feeling than it is of thought.

From the summit of mental to the base of bodily life, we have a sympathetic and responsive scale of forces. Touch any mental string in this harp of life, and instantly some part of the body

responds with its sympathetic vibration.

The vibrations of mental excitement are larger and more noticeable in the body than in the corresponding parts of the brain. The heart throbs high under the impulse of love; but beats with irregular and arrested action when fear penetrates the soul. The whole language of gesture illustrates mental and bodily sympathies. They justify the instinctive sense which leads men to speak of Affection as the "Heart." We may still use the word heart in this way, if we will remember that the brain, the face, and the body, each contain the same scale of powers, pitched upon higher and lower keys.

The organs of the brain gradually change in the character of their functions as we pass from any given point to an entirely antagonistic region. There are no sharp lines of demarcation between them, and the lines thus drawn in the map of the

organs are for the convenience of study.

The Human Face.—If the mental faculties were not connected with definite parts of the face, then the face could possess neither expression nor beauty. A look which indicated love at one moment, might indicate hate the very next. But the face is no such bundle of contradictions.

The lines on the face in the map of the organs show its principal divisions. These also correspond with the physiological functions of the face.

The mouth is directly connected, physically, with nutrition, and hence the signs of affection are around the mouth; for affection is related to nutrition.

The lower jaw is directly under control of the Will, and hence the signs of Coaction give downward length to this part of the face.

The intellect is closely related in sympathy with the lungs, and its facial signs give length and breadth to the lower end of the nose, the facial organ of breathing. We call the reception of knowledge inspiration, a word proper to the action of the lungs.

No person with a very short nose could have a great intellect, or produce a profound impression on the world.

Observation, Inspiration, Reason, Synthesis, and Analysis give prominence and length to the septum of the nose at the points indicated by their initial letters.

Imagination gives breadth to the back part of the septum.

Amity and Reform elevate the eyebrow at the

places marked.

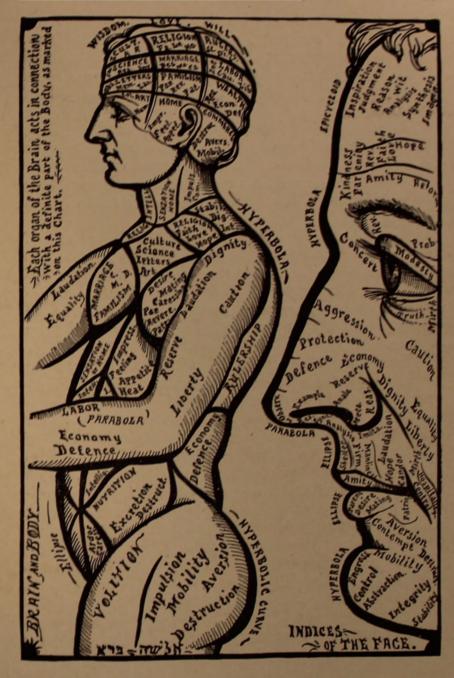
Truth and kindness elevate the inner third of the eyebrow. They form the upright and vertical wrinkles there; and Truth also produces folds and wrinkles above and below the eye.

Hospitality gives upright wrinkles back of the mouth corner, and Mirth draws the mouth corners up and backward. Mirth also causes converging wrinkles from the corner of the eye outward. Simplicity or candor curves the mouth corners slightly upward. Friendship causes slightly converging wrinkles in the red part of the lips.

BRAIN AND BODY.

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of the spine. This quality is stronger in man, as attractiveness is in woman.

The downward length of the lower jaw indicates the faculties of Self-control, Integrity, Stability, and Caution. The breadth of the face at these points is thought to indicate the power of these faculties of the will to express affection. Mental control is indicated by an upright fulness back of the mouth.

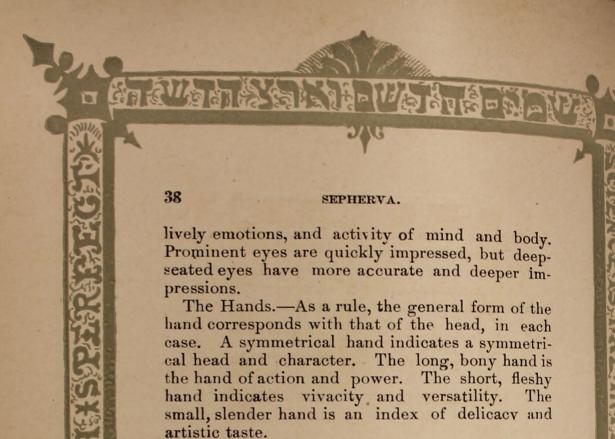
Dignity and Laudation are connected with the muscles which elevate the upper lip and the wing of the nose. Laudation lifts the upper lip, as in the smile of approval. Dignity produces a muscular fulness at the place marked, and liberty below this.

Aggression, Protection, and Self-defense project the ridge of the nose at the upper, the middle, and the lower parts. These are small in the nose of the child; full in the Greek nose, and large in the Aquiline and Roman. Economy and Reserve give breadth to the nose at the place marked.

The intellect of a child is active, but like its nose, is not yet developed. The Greek nose has well developed signs of intellect, and the end of the nose is finely chiseled. It indicates refinement, taste, and a love of art. The Roman nose belongs to an executive, powerful, and powerloving character. It was common among the old Romans, and hence the name. The aquiline or Jewish nose indicates the commercial spirit, shrewdness, and combative energy and perseverance.

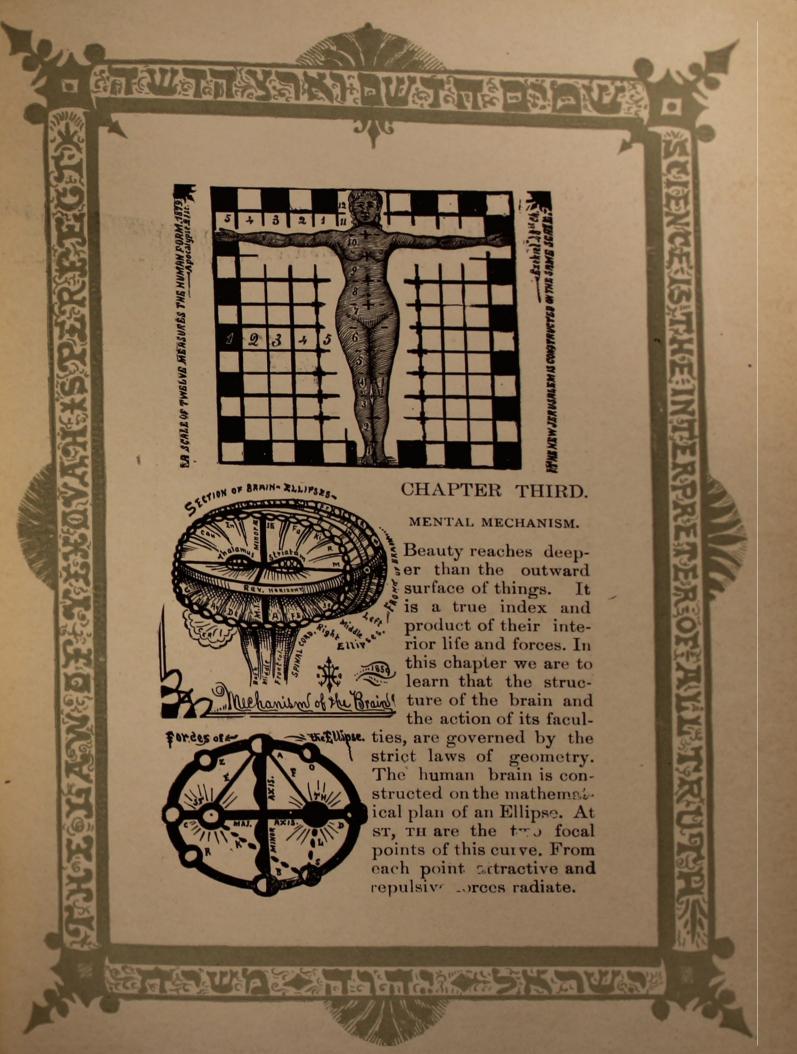
Destruction gives a fulness below the back of the mouth, and Aversion near its center. Contempt protrudes the lower lip.

Indications of the Eye. Large eyes indicate





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At the ends of the minor axis, A, B, the forces of the two centers are equal. This axis is the balancing line of unity. At all other points the forces vary. Thus at O the attractive force of TH is greater than that of ST. At L, the attraction of ST is the greater, and it reaches its maximum at C. Passing from C to R, B, S, the attraction of ST reaches its minimum point at D. Exactly the opposite has occurred with the repulsive forces of the two focuses. The repulsive forces have increased at each step as the attractive forces have lessened, or, have diminished as the attractive forces have increased. At every point, both attractive and repulsive forces are acting at the same instant.

The points at equal distances on either side of the minor axis, as O and L, balance each other and pivot on the axis, as at A. In a less conspicuous way, the upper and lower sides balance upon the major axis. All these balances are of extreme importance in understanding the action of the mental faculties.

A section of the brain shows that it contains four great elliptical planes, three of them vertical and one of them horizontal. Those in the right and in the left hemisphere are of course alike in function, so that we really have but to consider the relations of three ellipses. The united action of the two hemispheres takes place on the double middle ellipse, marked from OBS, to Mobility, in the engraved Measure of man.

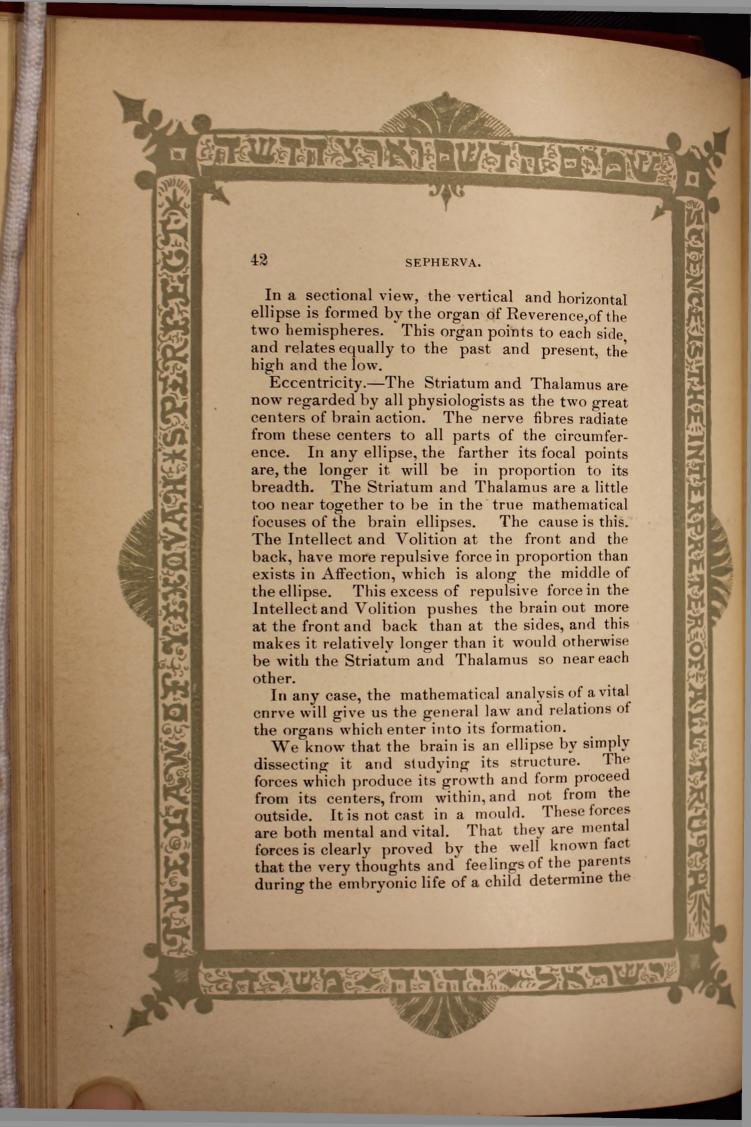
Minor Axis.—The minor axis of the external ellipse extends from Appetite upward to Sexlove: Ap. to Sex. These faculties are the material pivots of all human life on the earth. For the

physical existence of every individual depends upon the reception of food and drink, through appetite. From these materials of food every organ of the body is continually formed, and its action is maintained. The solid bones and the thinking brain are alike built up from these food materials. So much for the existence of the individual. But the existence of the race or species depends upon the union of the sexes through Sexlove. Through this love, the child receives the materials for the original formation of every part of its physical organism. Thus Sexlove becomes the high material pivot of our existence, as the faculty of Appetite is the lower one. No other faculties can affect our mental and physical happiness so directly and so profoundly as these. From no others can we receive such exquisite and all-pervading pleasure as these give when they act in harmony, or such misery as these bring when in discord. In the eighth chapter, we shall find that Sexlove determines the classification of all offices and labors.

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In the middle ellipse, the upper end of its minor axis is formed by the faculties of Faith, Love, and Hope. At its lower end are those of Feeling, Heat and Impression. These faculties are the channels through which we receive universal forces, even as we receive materials through the first ellipse.

The sense of Touch or Feeling, at the lower end of this axis, is the common standard for comparing all the other senses. Through this sense we perceive mathematical relations, which are the basis of all science. Through Faith and Love, at the upper end of this axis, we are related to the life of the Deity and to the collective life of Humanity, to the spiritual forces of the universe.



shape of its features and of its brain. And we know that either temporary or permanent changes of feeling or of character will change the curves of the head, the face, and the body. It is mental forces then, which cause the brain to be an ellipse, and consequently the mental faculties must obey the mathematical law of this curve.

Sex in the Ellipse.—The forces of the two sexes in love act in strict harmony with the elliptical law of variation. The Striatum is dominant-

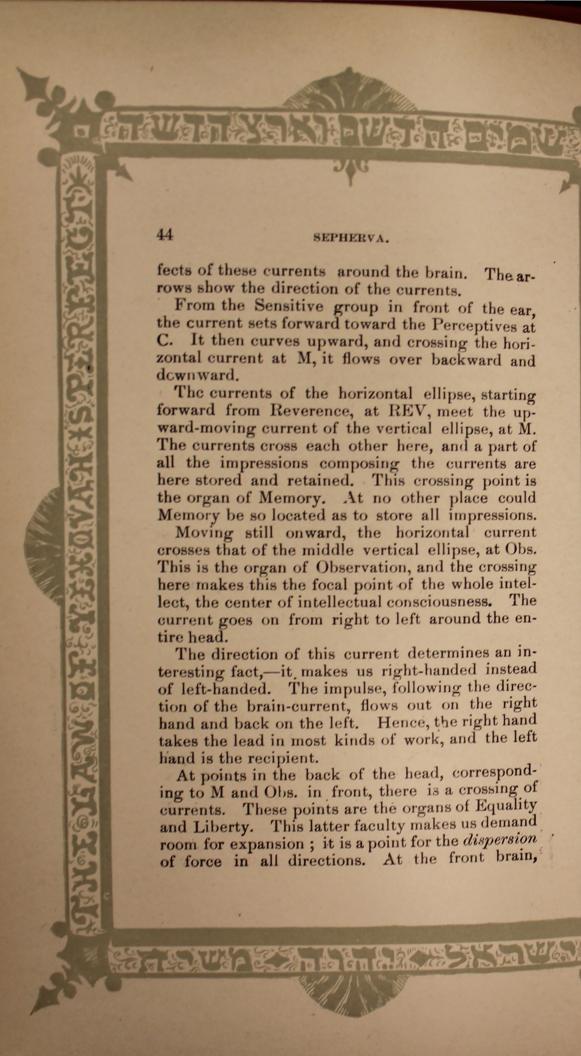
ly masculine and the Thalamus feminine.

In their highest expression—that of originating a new being—the masculine aud feminine forces are equal. From that moment forward, during the whole period of the child's prenatal development, the feminine forces increase in quantity and intensity, and the masculine diminish. After the direct parental functions are accomplished, the feminine forces slowly return to their equipoise with the masculine.

The affectional forces of the two sexes pass through elliptical variations of slighter extent when not engaged in parental relations. This law gives to sexlove—within its duality—a wide variety of emotion, the infinite charm of perpetual renewal.

THREE GREAT CURRENTS of nerve force sweep around the brain ellipses. They flow from cell to cell, and taking in their path all the principal organs, they awaken or excite these faculties in a definite order.

A large part of all the impressions received through the senses are conveyed along the fibres to the Thalamus and Striatum. On figure 3 of the measure of man, we may trace the course and ef-



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Observation concentrates force from all directions. At Mobility a part of the currents pass to the body and thence make their exit from the system.

All of the principal organs of the brain are located on the line of these ellipses. So that wherever an impression may be made on the brain, or an action may be started, it will be carried in these currents to Memory, Observation, Reason, and Inspiration. We are thus made conscious of every mental action, and can reason about its relations.

This law of the ellipse would alone determine

that the faculties are correctly located.

The course of these currents determines that in mental action, there is first Sensation, and this is followed, in orderly succession, by Perception, Memory, Reflection, Desire, and practical Action. Experience proves to us that this is just the order in which these mental processes normally succeed each other. But in cases of insanity the currents flow in irregular or reversed directions, and the ideas and actions are illogical and disorderly.

Radius Vector. A current of nerve force starting from Observation and flowing around the central ellipse, in the direction of Inspiration, Amity, Faith, Stability, Dignity and Liberty, would become slower and slower as it receded from Observation, its point nearest to its focus in the Thalamus. After the current reached Liberty, its speed would gradually increase toward Appetite and Feeling, until it reached its starting point. This variation corresponds to the law of radius vector of the planets. The shorter the fibres of any organ, the less will be the time required to perform the circuit.

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Minor Currents. There are many minor currents in the brain, for they start at any organ which is the point of excitement, and spread more or less in all directions. Every organ, when in action, must therefore excite its neighbors, these waves establishing a universal sympathy among the organs, strong in proportion to their nearness. Hence, faculties which are similar to each other have adjacent locations. If Friendship and Aversion were side by side, then the more our Friendship were excited in loving a friend, the more would Aversion be aroused to repel him.

Other Curves.—The ellipse is the great curve upon which the brain is constructed. But it is not by any means the only curve which we find in the human form. The organs and signs of Sexlove in the brain, the face, and the body, form elliptical; those of Parental, filial and some of the intellectual, form parabolic; the Ambitious form hyperbolic; and the Reasoning, and Religious form epicycloidal curves. We shall only notice these briefly.

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The Epicycloid forms a prominent part of our mental structure. This is the curve upon which all of the planets and suns move through space. In the brain a vertical range of organs, including Inspiration, Kindness, Faith, Love, Hope, Stability, and Dignity, are located upon this curve. These give us the widest possible range of relations so far as our feelings or affection is concerned. They unite us with universal life. Another range of organs, forming an epicycloid, includes Inspiration Reason, Imagination, and Construction. These faculties enable us to comprehend, and to harmonize ourselves with, universal law. These are the

only two ranges which form this curve, and they are the only ones which establish universal relations.

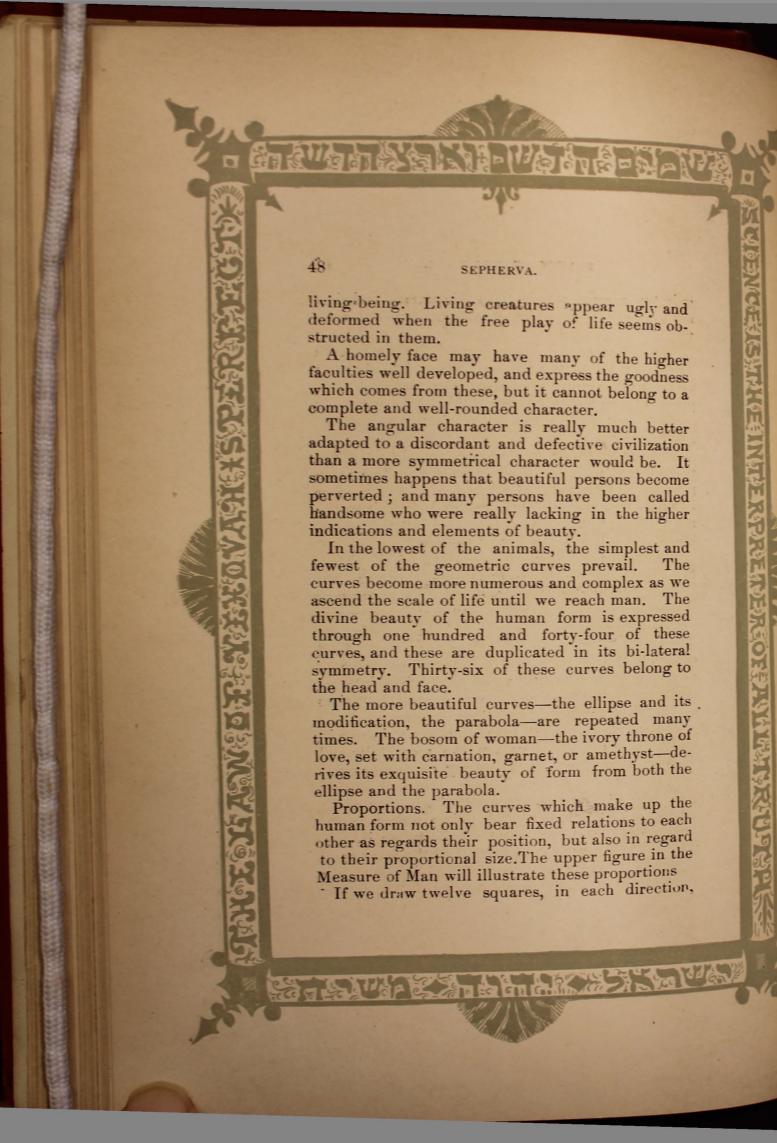
In the map of the body, hyperbolic curves are formed by the ambitious faculties at the shoulder and the same curve is repeated by the analogous group of impulsion in the thigh. This curve is formed by the faculties of Will on the chin, and lower maxilla.

The straight line is a monotone. It does not possess that variation in the direction of line which is essential to beauty of curvation. It can occur but once in a beautiful form, and that is in the ridge of the nose. The circle, too, is a monotone,

and only occurs in the iris of the eye.

Beauty of the Form. The curves of the head, face, and body seldom terminate abruptly, but gracefully blend with each other, like the organs of the brain. The number and perfect arrangement of these curves gives to the human form its wonderful beauty, so far surpassing that of all other physical objects that we cannot conceive of anything more beautiful; and our highest inspirations attribute the same form to beings in realms of existence more exhalted than our own.

The most beautiful face and figure is one in which all of the faculties are the most fully and symmetrically developed. If any organs or signs of a curve are deficient in size, this will destroy the regularity, and consequently the beauty of the curve. The most beautiful living object is one having the fullest and freest manifestation of life. For Life is a principle of unity, and the more complete the relation and harmony of its parts, the more perfect is the manifestation of life, in any



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these squares will accurately divide off the proportion of the various parts of the human form. This divine measure of a man was rediscovered in modern times by the artist Page, from whom our drawing is copied.

The extended arms reach as far as the person is tall: the heighth and breadth are equal, as was

said of the Celestial city.

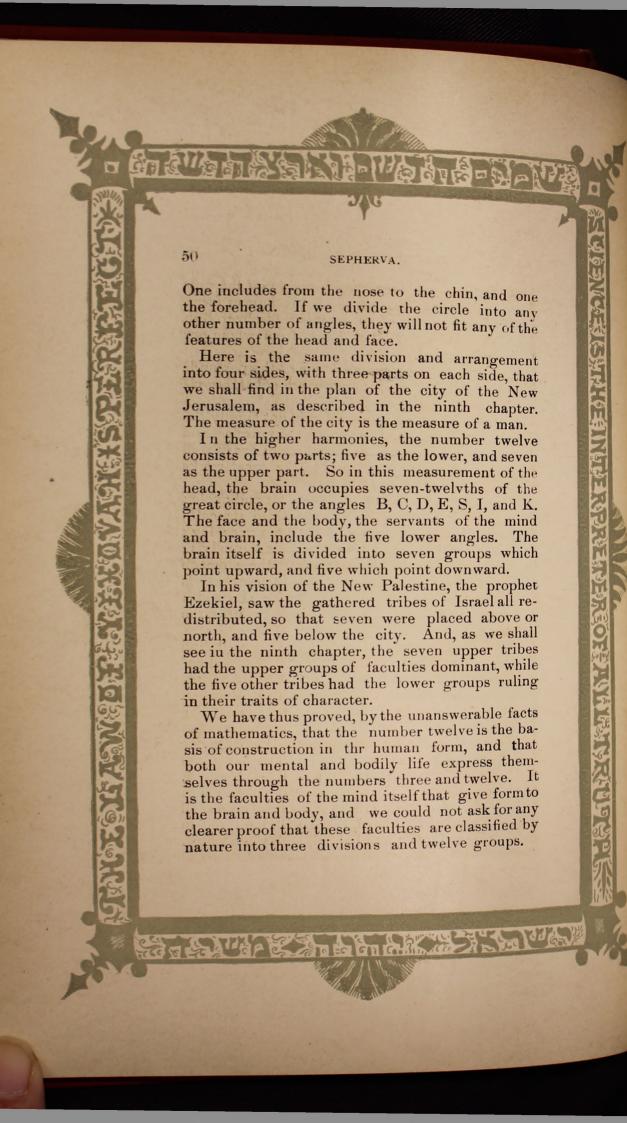
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These divisions of the form are not simply external, they belong to the bones, the muscles, and the viscera. They are exemplified in every well proportioned adult person, and in the great works

of ancient and modern statuary.

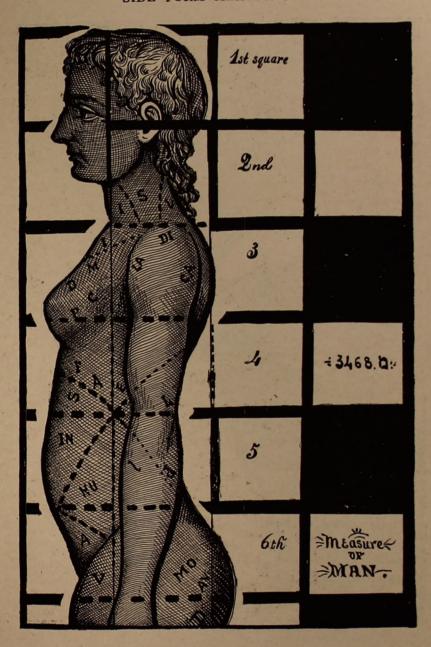
The lowest square includes the foot and ancle; the second is the lower leg; the third its calf; the fourth is the knee; the fifth the upper leg; the sixth is the thigh; the seventh is the pelvis; the eighth is the abdomen; ninth, the stomach and liver; the tenth is the breast; the eleventh is the neck; and the twelfth is the brain. Its width also forms a twelfth. The arm is five-twelfths, the hand is one.

When we measure the head alone, we still find that a scale of twelve is the only one that will accurately fit its various parts. In the second figure, of the measure of man this scale is illustrated. A point, F, at the opening of the ear lies against the great physiological center of the nervous system as described in the second chapter. Drawing one line from this point to the top, and another to the lower end of the nose, these two lines, 1 and 2, include an angle of thirty degrees, or one-twelfth of a circle. Extending these same sized angles all the way around the head, there will be three in front, three above, three behind, and three below.



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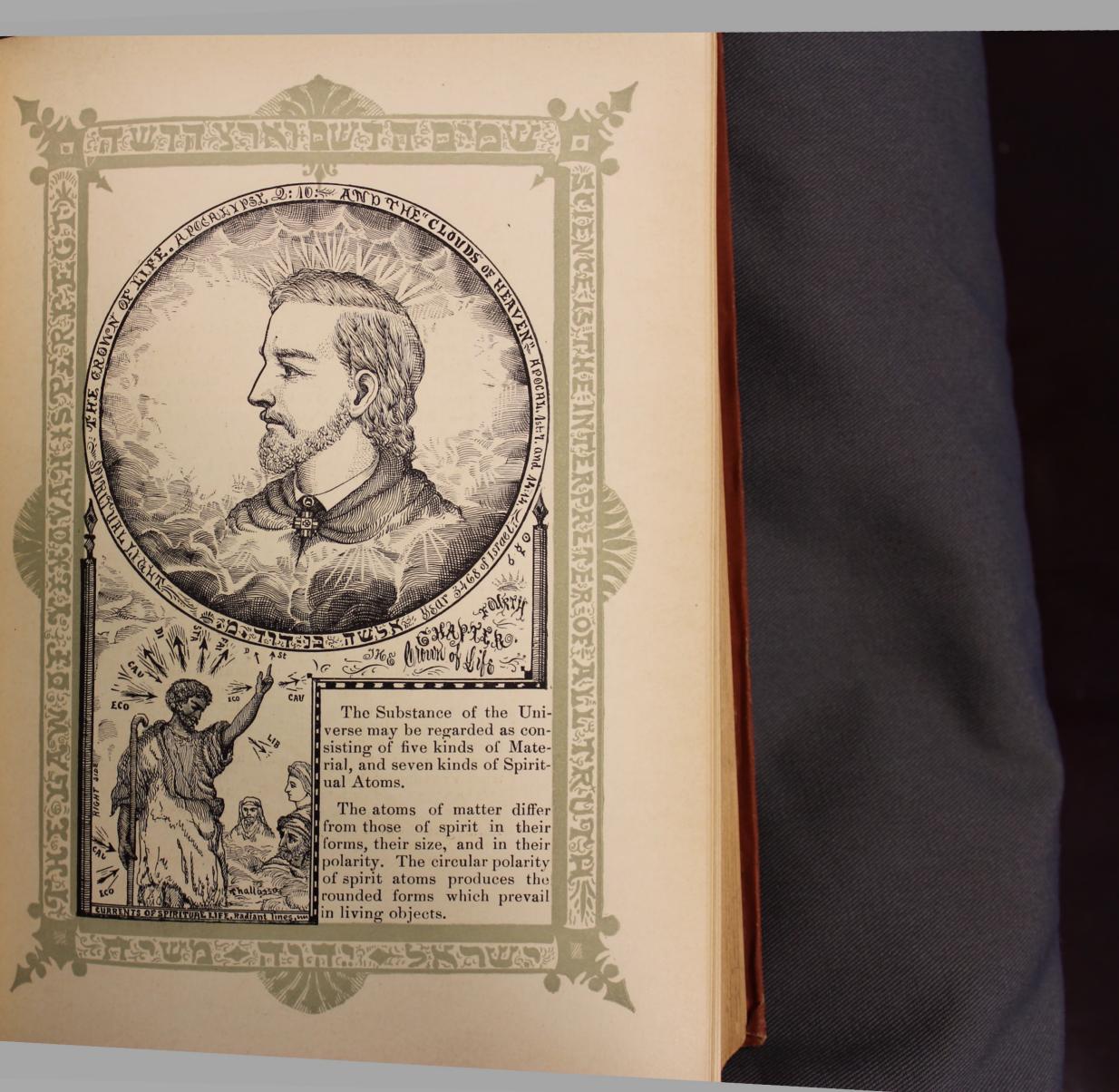




SEPHERVA.



PPER PRESENTATION



In the atom of spirit on the engraving of the mental mechanism the arrows show the direction of these circular currents of polarity. The rays

show its straight polar lines.

The reason why spirit has no weight or gravity is because its atoms are smaller than the length of the waves of gravity, and therefore these waves cannot set the atoms of spirit into vibration, and consequently the attraction of gravitation has no effect on them. Suppose, for example, that the waves of gravity, in our engraving, were the 50,000th part of an inch in length, while the atoms of spirit were only the 70,000th of an inch. It is evident that one of these long waves could not vibrate within the smaller atom of spirit.

But the waves of spirit atoms may unite with each other, and according to the law of intensity, they may produce waves large enough to affect and set in vibration the atoms of matter. Thus in figure 2, the waves A and B unite at c, and the resulting wave is twice as large as when they were

separate.

Every atom has its own inherent vibrations. These are a part of its essential properties. It may have different forms of waves at its different poles, and thus each pole possesses its special kind of attraction, and may exert its force over a special kind of matter. In the molecule of bioplasm the atom of carbon, in the center, attracts the atom of hydrogen at one, and that of nitrogen at another pole.

The atoms of spirit possess forms quite as distinct and persistent as those of matter. This has nothing to do with the question of their possessing

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weight, as was explained above. If spirit atoms have form they must of necessity have space. For we cannot conceive a form, a circle or triangle for instance, without there being space between its two sides. It does not follow that the ultimate atoms can be divided because they have parts, though some thinkers have tried to suppose it did.

Waves of Nerve Force.—The radiant waves from each organ of the brain and from each part of the body, have their own distinctive character. They differ in form, in length, and in altitude.

The engravings of the Mental Mechanism show the rounded form of the waves of Memory; the constructive waves of Reason; the articulated waves of Amity or Friendship; the smooth waves of Religion; the looped waves of Sexlove; the angulo-curves of Dignity; the sharp angles from Integrity and Liberty; the acute angles of Defense, and the hooked waves of Aversion.

These examples show that the form of the waves corresponds precisely with the character of the faculties from which they are radiated. smooth, attractive waves of Affection are in broad and appropriate contrast to the harsh, repulsive Our very waves of the Defensive faculties. thoughts and feelings have their distinctive shapes and impress them upon the outflowing waves. The prickling sensations under the excitement of anger are very different from the soft thrills of An instinctive preception of these affection. truths has determined the figures of speech used Men never speak of love as in all languages. rough, or of anger as being smooth.

The nerve-force usually travels along its special

conductors, the nerve fibres, while it is within the brain and body. But, like magnetism it can readily flow outside of its conductors when it reaches their terminal ends. The sheaths of the fibres insulate the current while it is passing along the fibre, but when the current reaches either the cells or the free end of the fibre, then it may be freely radiated into space. Its rate of movement along the nerves is thought to be about two hundred feet per second, a rate which is very slow in comparison with that of magnetism or electricity.

Nerve-Spheres. The nerve-force constantly radiates from each organ, and it thus passes from us in all directions through space. Each person is thus constantly surrounded by a nerve-sphere which corresponds to his own character. Through these spheres we either attract or repel those who are around us. We mentally impress others and are impressed by them.

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These pulsating brain-waves, these swift lines of thought and feeling, sometimes reach a few feet, and sometimes many miles. But whether extending a great or a less distance, there, around every person, is this vital sphere of silent power, reflect-

ing and transmitting every mood and impulse that sweeps through the soul.

When two friends approach each other, there is a beautiful play of colors as the nerve currents from them meet and blend, one after another; and when the two friends become fixed in position, the waves returning to each give a new series of luminous harmonies. Sometimes the currents from some organs will blend, and that from others will

not. In that case, the two friends can only partly sympathize in feeling or thought. When the

blending is complete, we may read the very thoughts of our associates.

These exchanges are constantly taking place and all persons feel their influence, whether such persons are called sensitive or not. The highest effort of clairvovance is but the exaltation of this nerve-sense, which all persons exercise in a greater

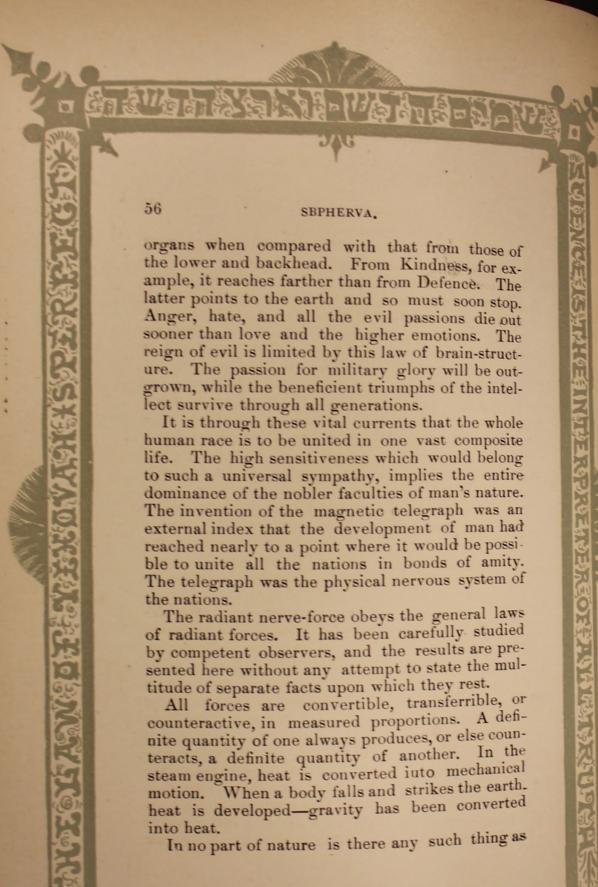
or less degree.

Mesmerism. Mesmer and his followers have shown that the voluntary exertion of nerve-force in one person has enabled him for a time to control the muscular movements and apparently the whole thoughts of another. The operator makes passes over his subject, who must remain in a receptive condition, until his nerve-force has sufficiently penetrated the latter. Then whatever the operator may think or wish, the same thing is thought and wished by the subject. These experiments are abnormal uses of the nerve-force, but they serve to vividly illustrate its transfer between persons.

Mental Telegraph.—The nerve-force may extend between those who are great distances apart, and convey expressions of thought and emotion even more exact than by words. In these cases of mental telegraphing, the nerve-force may be passed through the air, or be conducted along solid objects, as along a road where a person has traveled. Many obstacles interfere with this method of communication. Every advance in culture and refinement will make its use more fre-

quent and certain.

The nerve-force from large and active organs extends farther than that from small and inactive ones. So does that from the front and upper



steam engine, heat is converted iuto mechanical When a body falls and strikes the earth. heat is developed-gravity has been converted into heat.

In no part of nature is there any such thing as

absolute rest. Matter, Spirit and Force are eternal. Either may assume a thousand complex forms in succession, but neither can ever be destroved. To-day we behold the stately tree of the forest; a few centuries hence it will have fallen to decay, and its tissues be converted into gases or into the soil. Nay, before our very eyes the wonderful transformation is constantly taking place, but not an atom has been destroyed, not any force has been wasted. They have disappeared in one, to re-appear in another form. The entire quantity of matter and of motion remains always the same in the universe. We cannot take any atom of matter and by any possibility divest it of motion. For example, no atom of matter was ever found that did not possess gravity, or the power of movement toward other atoms.

Control of the Will.—The will appears to have a certain amount of control over these out-going currents. By thinking and steadily exerting the will on a particular person, the nerve currents may be directed towards him more definitely and effec-Within the brain itself the will displays tively. the same power in directing the currents of force. We can, by an effort of the will, call one faculty or another into activity, just as we choose. In the brain, however, the mechanism is so regular that this object is accomplished without difficulty and

without our notice.

Modification of Currents .- A current flowing from an organ in any direction over other organs. mixes with the force peculiar to each, and is correspondingly modified. For instance, take a current starting from Excitement, the lower part of Caution, toward Stability. The harsh, angular

character possessed by the waves when they start from Excitement is slightly modified by mingling with the force from Caution. At Patriotism, its forces make them much more quiet and smooth. Still further on, the blending nerve-force of Integrity imparts to them a more steady and even strength, and that of Perseverance gives them greater uniformity. At the end of their course, Stability or Firmness imparts its gentle and firm influence. The force of each organ tends to make the passing current resemble itself in character. If the intermediate organs are small and inactive, the current would pass around them, and over larger and more active ones.

Interference of Brain Waves.—A current of nerve-force from one organ may meet and neutralize that from another by interference. This is according to a general law of all the forces, that the crests of the waves in one correspond to those of the other, they are increased in their intensity; but when the crests of one fall into the depression of the other, they neutralize each other.

The new resulting force in the brain may be readily estimated by considering what the two organs were, and over what organ the currents met. A current from Parenity and one from Laudation might meet and neutralize each other over a large organ of Caution. The new force would be appropriated by Caution, and would probably impart to the organ a pleasing feeling of tender care.

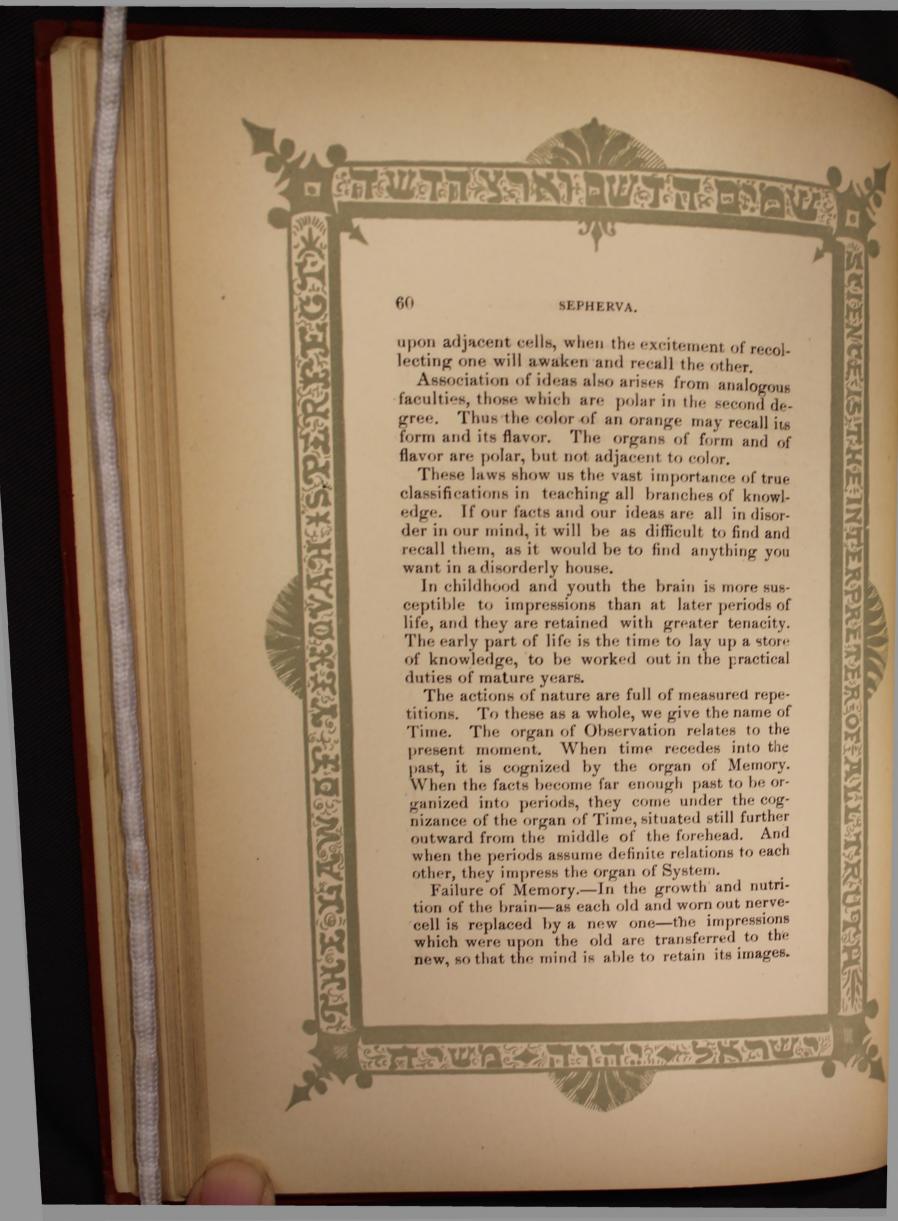
Opposing currents are constantly meeting and being converted where no interference occurs. The organs of Imagination, Im, are located at the junction of the Reflective, the Receptive, Sexal

and Parental groups. It follows that a multitude of minor currents must meet and be converted over this organ. Out of these conversions would naturally spring the whole system of metaphors and figures of speech which form so large a part of all languages. For if the nerve force of two organs may be converted into each other, then the forms of speech appropriate to each may be exchanged, as in the case of all metaphors.

Adhesion of Impressions.—When a new impression is made on the mind, it sets up its own peculiar vibration of the fibres and cells. Now if the mind already contains an impression which was in part similar to this new one, then some of the fibres have already vibrated in the same manner as the new impression would make them. According to a general law of all action, they could repeat their old vibrations more easily than they were produced at first. Hence new ideas tend to set in action those fibres and cells which have already responded to similar ideas, and thus similar ideas and feelings are stored up in the same parts of the brain. This fact is the basis of the important law of Association in memory and thinking.

If each new fact and new impression, as it comes in to the mind, is compared with those which are already there, and the mind decides which of the old ones it resembles most; then the new impression will be made on the cells which are adjacent to those which contain that old impression which is most like it.

As any excitement of one cluster of nerve cells will extend to and excite adjacent ones, it is clear that if the impressions of similar facts be made



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But there is a little force expended in making the transfer; consequently, it is never complete, and the mental impressions gradually lose their distinctness and intensity. Probably, many times the new impressions received by the mind are superimposed upon others, and this would impair their distinctness.

The organ of Memory is a general storehouse, but each mental faculty also retains or remembers its own kind of impressions. Thus the organ of Form remembers images, and that of Amity re-

tains the impressions of friendship.

Nerve and Muscular Force. The nerve-force may be converted into either of the other forces. Whenever a muscle contracts, nerve-force has been sent to it and expended. Let a person of studious and sedentary habits engage in vigorous muscular labor, and he will quickly realize that the brain is using up its nerve-force in the effort, for his brain will soon feel exhausted.

There is an exact relation between the amount of nerve-force expended and the amount of mechanical force displayed in the contraction of the muscle. This is clearly proved by the fact that we know just how much nerve-force to expend in order to make the muscles contract to any required extent. All mechanic arts depend upon this certainty. In the acts of cutting, sawing, painting, and ten thousand acts of our daily life, it is necessary that the muscles contract just so far and no farther.

Waves in Dreaming.—In the act of dreaming, the fragments of mental impressions and images float about, and touching each other, they blend and adhere to each other in a disorderly and patch-

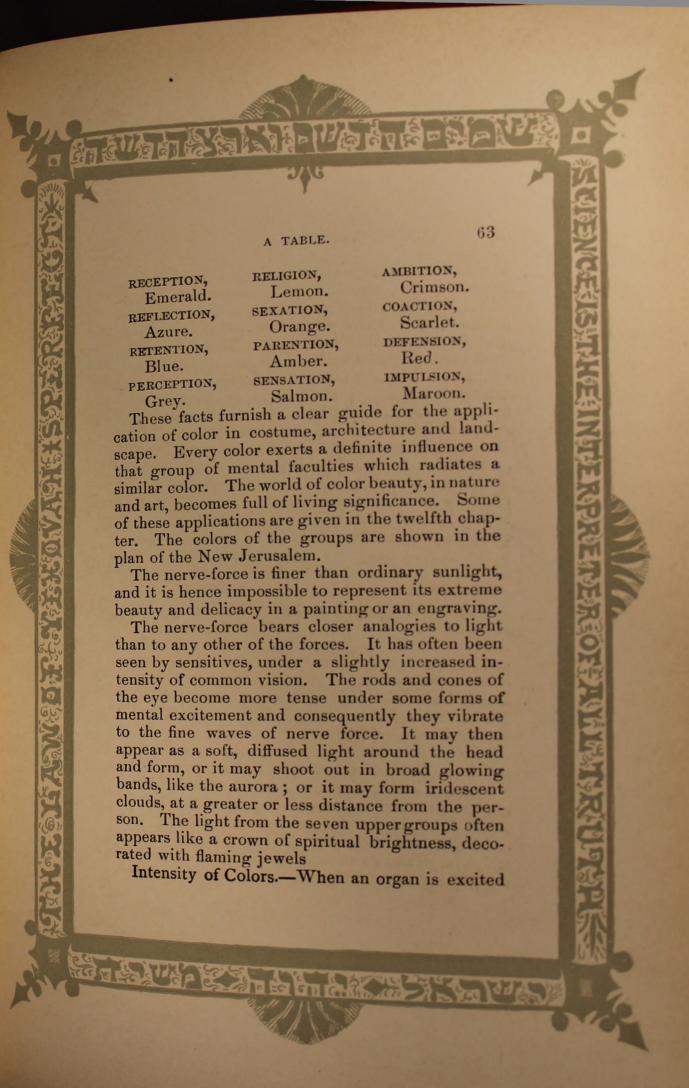
work manner. During sleep, the great currents flow around the ellipses with exceeding slowness, and the minor and cross currents are thus allowed to dominate. The regular order of thought is suspended. Sensation, perception, memory, reflection, desire and action, no longer succeed each other in the manner of our waking hours. But many times in sleep the mind is especially sensitive and passive, and then clear impressions of ideas or of facts, may be received from other minds, or even from our own surroundings.

If a large current attempts to travel over a nerve which is too small for it, then one of two things may happen. It may be converted into heat, and we all know that a strong nervous current may produce a glow of warmth all through the body. Or it may be converted into a galvanic current, and then the person will feel those thrills which

all have experienced under excitement.

Colors of Nerve-Force. Each organ of the brain radiates a nerve-light of a distinctive color. Thus, from Ambition the light may be bright or dull, clear or impure in tone, but it will always be a crimson or reddish purple. These colors are shown in the full-page view of the nerve spheres. The author of this book was the first person who analyzed these colors and traced them to their source in the separate groups. This was done, and the proper diagrams painted, in the Hebrew year 3445.

From the following table these colors may be readily learned, and also from the colored map of the mental organs in the second chapter, and from the colored plan of the New Jerusalem.



and active, its nerve-force will be bright and intense, flashing up vividly. We express this condition by saying that our minds feel bright. A public speaker whose whole intellect is excited, is said to make a brilliant effort. Those who first used these terms regarded them as simply figures of speech, little dreaming that in the advance of science it would be proved that they were true in the most literal sense. When an organ is inactive, or when we are asleep, the light from it is dull and obscure. We can truly say that the mind is dull

and the thought slow in this case.

The Crown of Life.—A well-cultivated and properly used organ gives forth a nerve-light that is pure and clear in color. But from an organ in the opposite condition, it will be foul and impure in tone. We speak a literal truth, then, when we say that a good person is the light of a community, or that the bad dwell in darkness. When we enlighten the mind of a person, we actually increase the quantity and quality of the nerve-light radiated from his brain. To the eye of the sensitive, or the clairvoyant, the brain appears like a luminous sun, only its light is of infinite softness. Hence a sun with twelve rays is a true symbol of the human mind, and of a perfect man, a Sun of righteousness.

The seven-rayed crown of living nerve light may adorn the head of every good person in this life. It comes to them as the sure reward of intellectual culture and spiritual excellence. It is often seen in the form given at the head of this chapter.

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Impressions.. — Every object radiates forces which impress an image of itself upon surrounding objects. If we lay a key upon a smooth metal

plate for a short time, and then remove it, the image of the key may be evoked by heating the plate. And this may be done years after the contact. Whether conscious or not, the objects of the universe are thus continually writing their history in these marvellous pictures.

The nerve cells of the brain and of the various nerve centers, are constituted on purpose to receive impressions. The extent of their impressibility is very great, and the results belong to a

large part of our conscious life.

By coming in contact with an object, a sensitive person may perceive and describe the impression it has received and retained. For example, by holding a manuscript letter in gentle contact with the forehead or the hand, the whole character, personal appearance, and even the thoughts of the writer at the time of writing, may be faithfully described.

A fossil plant or animal, examined in this way, gives up a faithful picture of its ancient surroundings, in prehistoric ages. In the experiments made by Denton, this was done again and again.

It was through contact impressions, received through different parts of the brain, that the true location of the mental organs was finally discovered in the year 1841. These experiments, made

by Buchanan, were numerous and decisive.

Here in a paragraph, is the statement of the method in the language of its discoverer: "Concentrative Excitement.—This is the scientific demonstration of cerebral functions, the method which I discovered in 1841, of exciting the cerebral functions to compel them to manifest their functions. The application of heat and cold to

A TO SERVICE TO THE PROPERTY OF THE PROPERTY O 66 SEPHERVA. いの。またのかをからなどに the various parts of the body and head, of galvanic currents and of medical stimulants and sedatives, may concentrate the nervous excitement to any one spot, and diminish the activity of other parts so as to produce a decided predominance of the stimulated organ. By far the best method for such purposes, is to use the stimulus of the nervaura (nerve-force) by applying the hand. The finger or hand, applied to any portion of the head, excites the adjacent organs by an attractive influence, and in highly impressible persons will produce an immediate and striking effect. Thus anger, joy, avarice, mirth, pride, imagination, memo ry, fear, or any other faculty may be aroused by touching its locality for a few moments, and by a series of such experiments the functions of every organ may be demonstrated to the satisfaction of the experimenter and his subject. Since this discovery we no longer need to occupy ourselves in calculating the probable functions of the brain from a vast number of indefinite facts in cranilogy, as Gall and Spurtzheim did, for a simple and easy experiment places cerebral science upon as positive a foundation as chemistry, anatomy. or physiology. It must be remembered that all our experiments are made without any mesmeric preparation or somnambulism, and that both operator and subject are equally awake, intelligent, conscious, independent and self possessed." The much later experiments of Hertzig, Ferrier and others, made by electricity upon the brains of lower animals, were undecisive and unreliable, These cannot report their sensations, and Ferrier made no allowance for the repetition of analogous functions, and the co-operation of back and

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front faculties. The pathological proofs of aphasia were more decisive, but they only located the faculty of Language where Buchanan's experi-

ments had placed it, many years before.

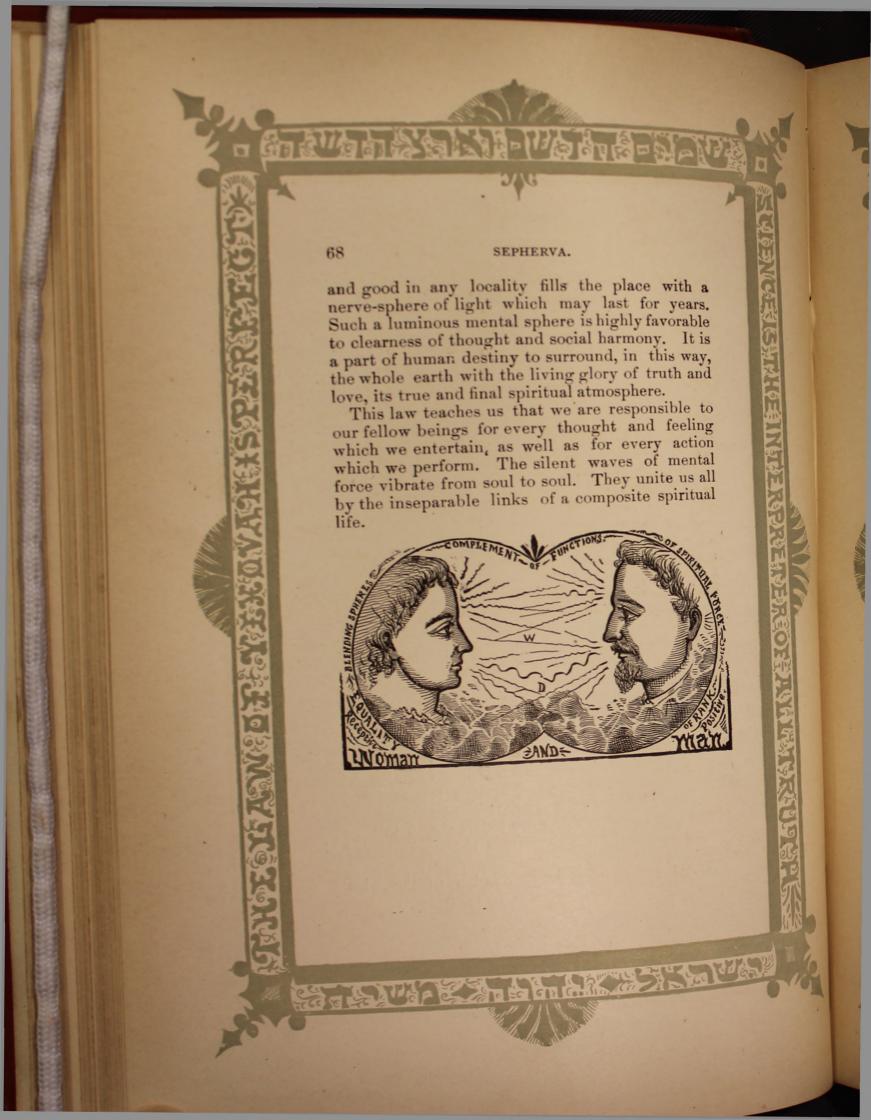
Caressing. Those acts of contact which express the various forms of affection, prove the reality of these impressions beyond all possibility of doubt. All animals with a distinct nervous system, from the insignificant worm up to man, express their sexal, parental, filial or friendly affection by the contact of caressing. Taking man alone, here are twelve hundred millions of these facts occurring And only one explanation is possible. There must be some actual force passing from one living being to another in these acts of caressing. This nerve-force is a vital part of us, and its reception in this way is just as real as the reception of force through the food which we eat. does not depend upon imagination. We touch those parts of the face and body which are functionally connected with the actions which we wish to express. Thus parental, filial, fraternal, and sex-love are connected with the lips and with the bosom, and hence kissing or caressing these parts expresses these affections. A kiss on the back of the hand expresses protection and submission, for this part of the hand is connected with the defensive and ambitious faculties. A kiss on the forehead expresses fraternal and religious affection.

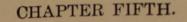
Spiritual Atmosphere. Through the radiated nerveforce we actually impart somewhat of our own being to everything we touch. And in turn we as constantly receive from the accumulated

force left by others.

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POLATION.



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From the chemical union of atoms to the vast revolutions of the stars, all action is polar. It involves the concert of opposite forces or tendencies—the attractive and repulsive; receptive and positive; masculine and feminine. The phenomena of mental po-

larity play an important and conspicuous part in mental action.

The polar faculties, these all-sweeping levers of life, vibrate through the earthy and the heavenly spheres of our being. They sweep the past, the present, and the future. They move the progressive and the conservative phases of our existence. The rhythm of human life depends upon their equal development and concordant action.

Spheres of Contrast. The major axis of the brain extends from Memory to Liberty. The whole half of the brain below this points downward, and belongs to the earthly side of our natures. This lower side of the brain rules the life of the lower animals. Their chief attractions are earthly and material. This half relates to the lowest sphere of life, the lowest uses of all things.

Opposed to this inferior sphere is the upper half of the brain. Its organs of Inspiration, Integrity, Faith, Love, Hope, and Reform lead us to perceive the higher life; the spiritual, the better uses of all things, the heavenward phase of feeling and action. We should look up and not down, is the command of these faculties. They point upward and they fit us for an elevated life of purity, goodness, and harmony.

The perceptive faculties, around the eye, are concerned with the things of the present. Opposed to these are the conservative feelings of the ambitious organs, from D to L and Economy. They cling with tenacity to whatever the past has bequeathed to the present. When acting alone, they produce a clannish feeling, and desire to go with the oldest and strongest party, whether it be

in the right or in the wrong.

The attractions to the past are opposed by the high front faculties of Inspiration, Reason, and Reform. These point forward to the future, and assure us that it is in the noonday of human history, and not in its gray dawn, that the sun of truth shines with the most life-giving beams. They command us to look forward, not backward. In the grand cycles of growth the old never fully returns. The new always has the first unfoldment of some truth or beauty.

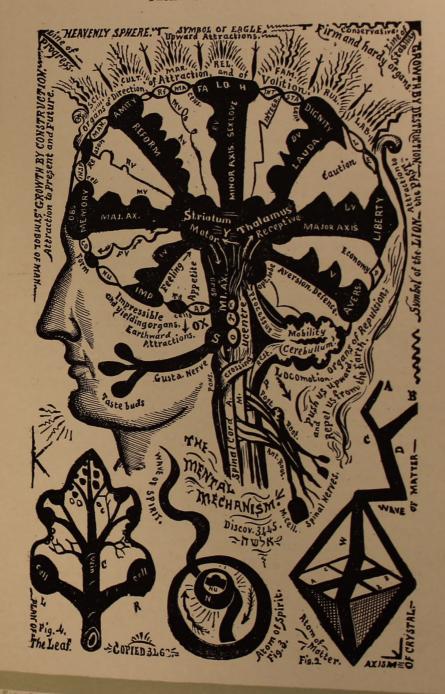
The sensitive faculties, from Appetite to Impression, make us sensitive, yielding, and impressible. They are balanced by the vigorous organs from Stability to Caution. These organs render

us firm, hardy, and tranquil.

The Defensive group, if acting arone, would make a person harsh, disagreeable, conservative,

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and selfish in manners and conduct, but when acting in conjunction with the opposite group of Amity, as they should do, than we have a careful regard for our own rights, but are careful to consider that our own rights are bound up in the interest and happiness of our fellow-beings.

The organs of repulsion, which point downward and backward, press against the earth, and thus push us upward and forward at every step. Their force thus acts in concert with that of the attrac-

tive organs in front.

In estimating the character of any person by the size of the organs, we must carefully take into account the opposite tendencies of these polar faculties. Thus a person may have very large Pride, and yet be modest and deferential through large Modesty and Reverence. When an organ and its polate are both small, the person will exhibit no decided tendencies in either direction. A person with small Kindness and small Economy would be neither a liberal nor a miser. His character would be negative in both respects. From the table of Mental Chords, the student can easily make these applications of the law.

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Zones of Co-operation. It is a law that the organs all point toward their objects of relation. Thus the social organs point forward toward our associates and friends; the Perceptives point down toward the earth, which we are observing; and so of the rest. But the organs of the brain are, many of them, arranged so that different organs have the same, or almost the same, direction. As a consequence of this, they should have similar objects of relation; and such is the case. These organs occupy two parallel zones, and may be

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illustrated by the initial engraving. It represents an upright cross section of the brain, from right to left. We are looking at this view from behind. The fibres of Stability, at S, in the left hemisphere curve over toward the right. They take nearly the same direction as those of Control, C, in the right hemisphere. They must have similar objects of relation. The calmness and fortitude given by Stability are sustained by the co-operation of Control, which gives restraint and elevated caution. The two faculties are analogues.

In this engraving, the fibres of Integrity, at I, in one hemisphere, point in the same direction as those of this faculty in the other. At B, the fibres of Baseness are seen pointing exactly op-

posite to those of Integrity.

In the table of mental chords the most important of the co-operating organs, just described,

will be found.

Where the hemispheres lie against and touch each other is another zone, still more interior. Its faculties echo in a less definite way those of the outer zone.

Third Degree. This unites all of the faculties in pairs. In the table of mental faculties, the first and second one in each trinity form a pair.

The contrast between the two members of a pair is less strongly marked than in the other degrees. In some cases it required a most extended and careful analysis to discriminate them. The two are located near each other, and never act in antagonism.

The organ of Dignity is bold, positive, masculine, and impressive, tending to keep those upon whom it acts at a respectful distance, The organ

of Laudation, its polate of the third degree, is receptive, attractive, and feminine, tending to win approval. It is strongest in the womanly character, while Dignity is stronger in man. Prevision is simply receptive, it is directly impressed by the forces which are to produce future events, and those which are now in action. But its polate, Reason, works externally, it combines and arranges impressions and produces new phenomena. Hence when compared with Prevision, it is the more positive.

But if we should compare Reason with Aggression, its polate of the first instead of the third degree, then Reason itself would appear receptive, while Aggression is positive. Defence and Economy, as a pair, are polar in the first degree to Amity and Reform. So long as the first pair predominate in human character, the influences of wealth are all enlisted on the side of conservatism.

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Repetitions. It is a part of the law of evolution that all through life the higher organs and the higher animals repeat and elaborate functions which are found in the lower organs and types of life. In our mental structure and action this transfer and repetition of function is very important.

The organs of the sensitive group attract us to the objects of sense, and make us feel that "the earth is our mother." The higher group of parental love attracts us to our human parents. And highest of all, the religious group attracts us to the Deity, at once the infinite father and mother of our existence.

Among the lower animals, the attraction between the sexes originates in the organ of Im-

pression. But in man, the higher group of Sexation takes the lead in this attraction, and surrounds sexlove with noble and refined sentiments.

The organs of reflection enable us to perceive laws and relations. This is a higher kind of perception than that of the Perceptive group, which

As we shall discuss in the chapter on Social Unity. the lower organs everywhere in the brain supply materials for the use of those above them. Thus we cannot reason unless the lower group of memory supplies Reason with facts; nor can Memory retain facts themselves, until these are observed by the Perceptives which are still lower.

Mental Unity.—Whenever we allow the gratification of any back head or basenal organ to become the chief object of our existence, we are then failing to obey the laws of unity. The fullest power and most perfect pleasure of the senses can only be reached when they act in connection with the higher faculties. The organs of Appetite and Feeling lie at the base of all the social faculties, and they furnish the materials of force to all of the organs, as well as to themselves. Hence in their normal action they support and stimulate the noblest and most refined emotions of the mind.

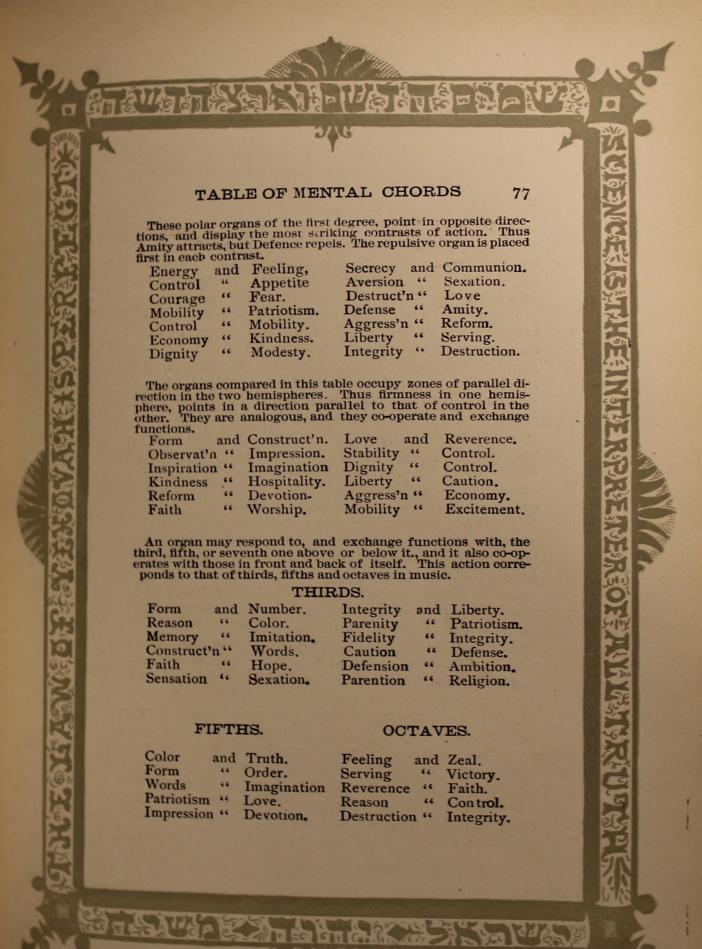
The highest power of the Perceptives results from the culture and exercise of the Reflective faculties above them. The telescope and the microscope were the products of Reason and Construction, yet how immensely have they enlarged the scope and increased the accuracy of our perceptions.

The higher organs of the brain must rule in the

character of man. The larger part of the attractive organs and signs in the lower animals point downward toward the earth. Their chief attractions are earthly and sensual. But in man these attractive organs mostly point up and onward towards his fellow beings and the external universe. He alone, of all beings here, is released from a direct bondage to the earth, and united with his fellows in filling an exalted and immortal destiny.

Concert of Repulsions.—When the repulsive force of a person is directed against us, we are usually repelled from that person. But, for example, when Defense is not exerted with sufficient energy to terrify or conquer the person assailed, it usually rouses his defense in turn. In this case the Defense of the first person conflicts with the organs of Firmness and dignity in the second; and these organs being too strong to be overcome so easily, have roused up their assistant organs of the defensive group. The courageous man becomes firm or combative when attacked, when the person with little Firmness is frightened But the repulsive force of two or paralyzed. persons may act in concert instead of antagonism. In this way the courage of a leader arouses and inspires that of his followers. Where they are all pursuing the same object, each one imparts repulsive force to his associates, and they display the results of its accumulated strength

Mental Chords.—It is evident that if the higher and lower organs resemble each other in functions, then they may make an exchange of duties, and this is actually the case. Thus, Reason may exchange with Color. The latter gives the percep-



tion of light, and we say that we reason upon a subject to throw light upon it. Control may exchange with Stability; Defense with energy; Lib-

erty with Dignity.

In general, an organ may exchange or co-operate with the third, the fifth, or the seventh one, either directly above, or directly in front of itself. This action corresponds with the chords in music. If musical notes which are thirds, fifths or octaves, are sounded together, they produce a sense of harmony, So, when these faculties respond to each other, it produces harmony of mental action, The princpal ones are given in the following table; and the intelligent reader, with the maps of the organs and signs before him, can easily work out the remainder for himself.

The harmonies of music are based upon purely mathematical relations. The sweet and graceful blending of voices in song, and the noble symphony of instruments, are each under the rule of strict physical laws of science. For in science we shall find graceful beauty and gentle sweetness

no less than in the works of art.

The laws of music are exemplified in mental action, and these same laws of mental rythm must be the basis of social harmony, as will be shown in

another place. A train of thought or feeling may be carried on awhile by one faculty, and then its third, fifth or seventh complement will assume the train of thought and carry it forward, while the first rests or is engaged with other objects; or what is more usual, it may take on the proper functions of the first, thus effecting a direct exchange.

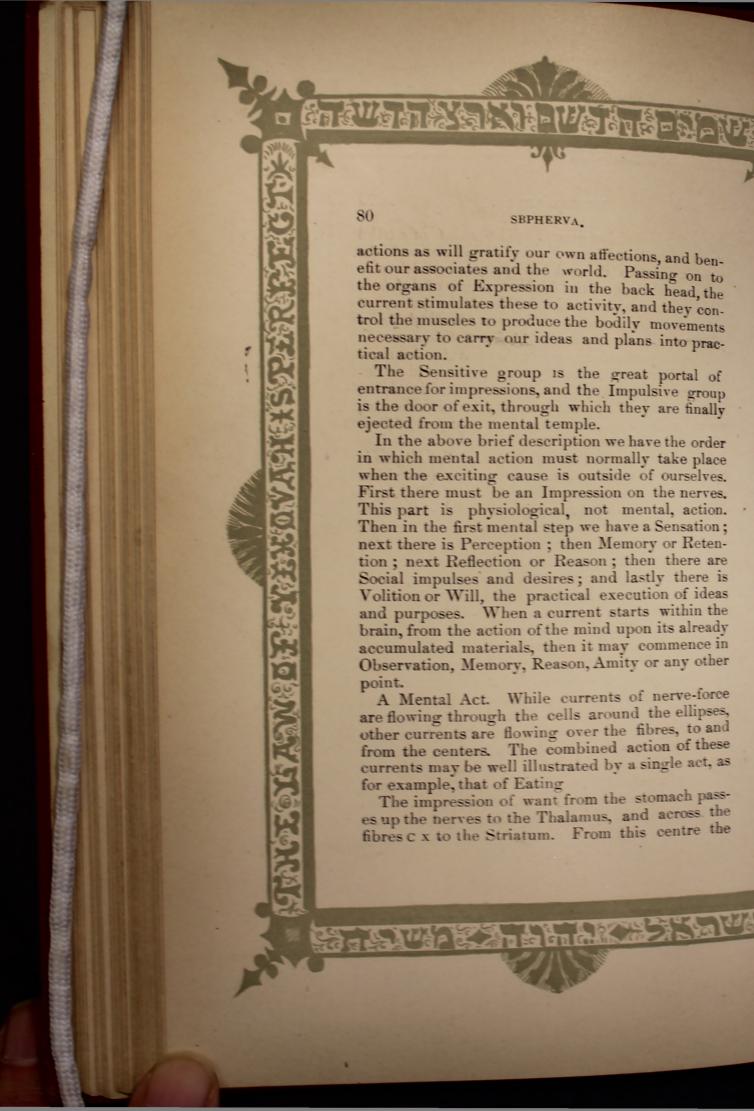
In the early ages of history, rulership depended

upon the impulsive group. The chief of a tribe must be its best hunter, warrior and runner. In time it came to depend more upon wealth and policy, functions of the higher group of defence. And in the future it will arise from the group of rulership itself, sustained by the eternal laws of justice, philanthropy and wisdom.

There are also frequent exchanges between organs of the third degree; that is, those which belong to the same pair. We may, for instance, make previsions through the organ of Reason; or, we may discover causes through the organ of Pre-

vision or Inspiration.

Mental Order.—From the law of the ellipse it follows that impressions made on the sensitive group must flow forward through the cells, A, F, N, to the group of Perception. While in the sensitive group these impressions are more or less vague or indistinct, they are merely feelings. On reaching the Perceptives, they assume definite forms, and we recognize the size, location, form, color, and other properties of the objects which have made the impression. The current now passes up to Memory, where more or less of all impressions are stored or registered for the future use of all the faculties. From Memory the current flows up to the cells of the Reasoning organs. These faculties combine, arange and mould the impressions into the final form of mature ideas. They discover the relations among the objects which have produced the impressions, and the uses to which these laws of relation can be applied in practical life. The current then flows back over the Social organs, K, R, S, and these make us feel like using the knowledge in such



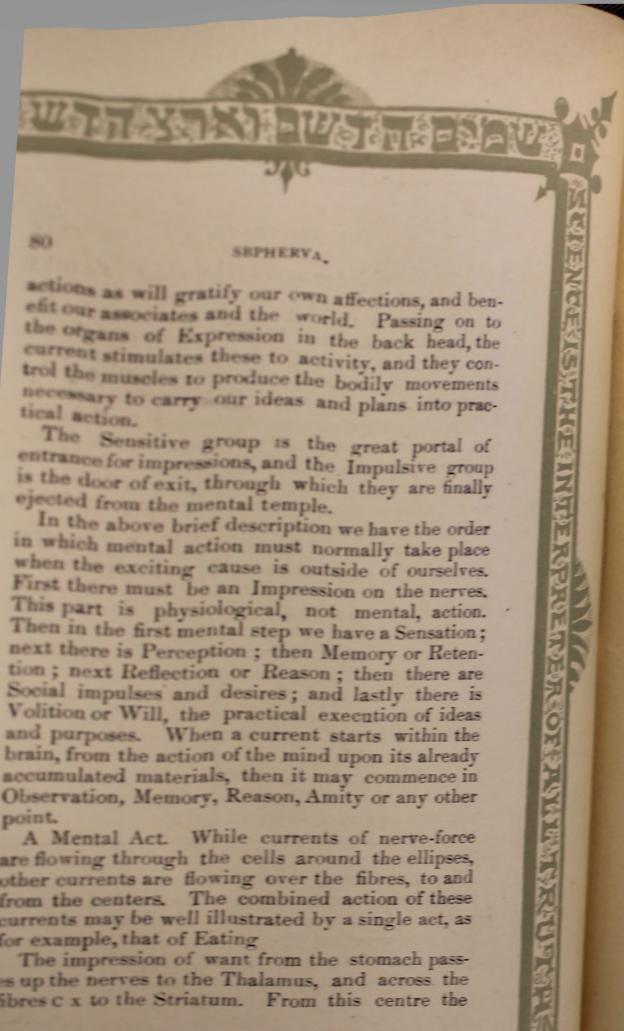
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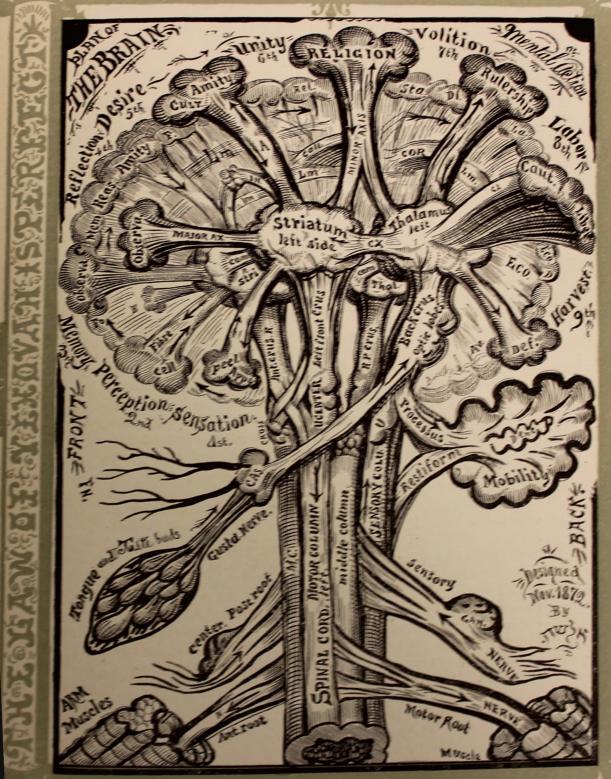
Charles Sandards



are flowing through the cells around the ellipses, other currents are flowing over the fibres, to and from the centers. The combined action of these currents may be well illustrated by a single act, as

for example, that of Eating

The impression of want from the stomach passes up the nerves to the Thalamus, and across the fibres c x to the Striatum. From this centre the



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currents pass down to the cells of Feeling and Appetite. We are then conscious of a sense of want, and the current passing forward to the perceptive faculties we perceive that the feeling arises in the stomach. A current now flows to the Striatum and then up to the fibres of Reason. This organ reasons about the cause of the hunger and the means of meeting the demand. Meantime the current at the perceptives has flowed upward to Memory, and we remember that the proper thing to satisfy hunger is food of some kind. This current and idea flows still upward to Reason. This organ then sends a current down through the Striatum and Thalamus, and up to Integrity and Caution, and other organs which control the muscles of the hand and arm. These organs now send down a current which in the Striatum meets with a directive current from the perceptives, and flowing down the spinal cord and motor nerves to the muscles of the arm and hand, causing the muscular movements necessary in getting the food and in the act of eating. The law of the Ellipse determines that Reflection must thus respond to Perception, and the Will to Reason.

If an obstacle were presented to the action of the arm, then by the law of the ellipse the Defensive organs, below the major axis, would respond

and assist in removing the obstacle.

Responses. If we take the minor axis, from O to E, we shall find that any organ at a given distance directly back of this line must mathematically balance and co-operate with whatever organ is at the same distance in front. These organs are enabled to respond in action through bands of fibres which run directly from one to the other.

Language is full of expressions which illustrate these balances. Thus Truth and Fortitude respond, and we say "truthful and serene." Mirth and Playfulness balance, and are expressed in the phrase, "playful and witty." Memory and Economy balance, and hence we say that "language is the storehouse of thought."

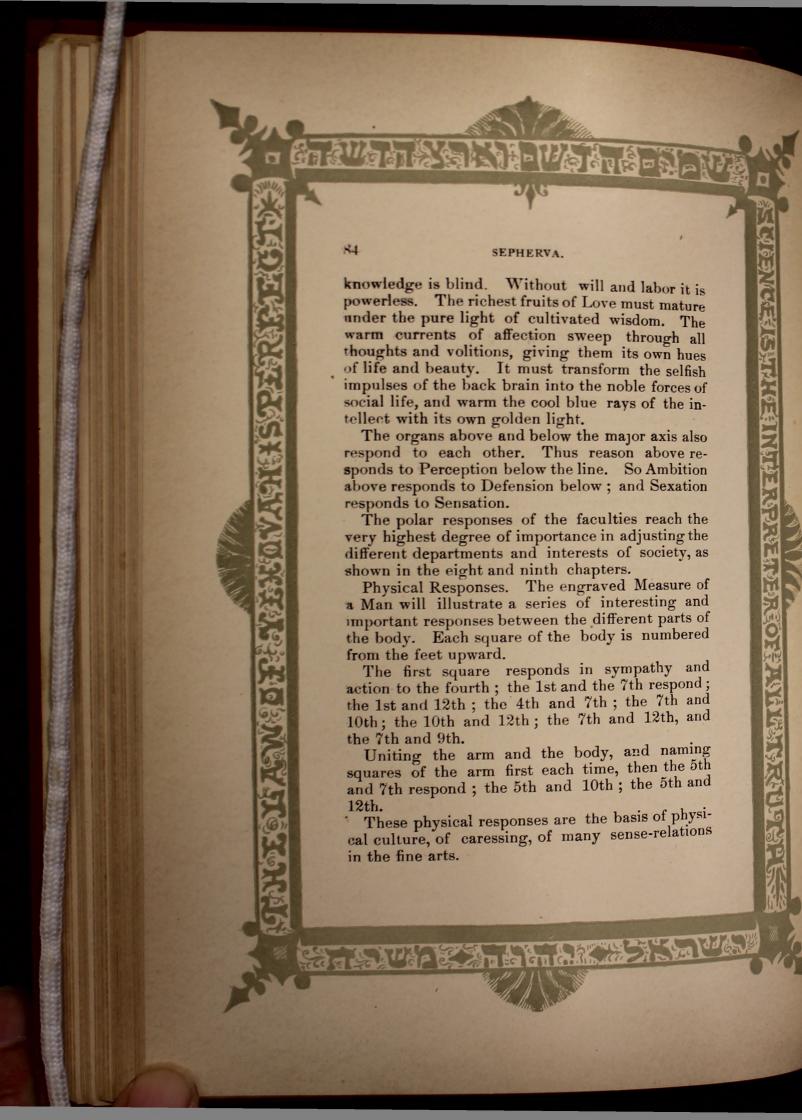
As another example, take the faculties of Faith, Love, and Hope. At the front, the organ of Faith gives us strong confidence in human goodness and the possibility of improvement. The moment this faith is established, the organ of Hope responds and leads us to undertake great and beneficient enterprises for humanity, and thus satisfy Love or Philanthropy. The mental trinity of Intellect, Affection, and Expression occupies the front, the middle, and the back brain. Affection lies along the minor axis, and is, both mathematically and vitally, the central third of our mental life.

Thus when we desire anything, through Affection or feeling, the Intellect in front remembers, reasons, and decides about it, and then Expression in the back head moves the muscles to do what is necessary to gratify the desire.

The primary impulse to action comes from the central member or pivot of the mental trinities, and first the left wing responds and then the right.

The sense of hunger springs from Appetite, but it requires both Intellect and Expression to gratify its wants. We must see the food through the perceptives and the impulsive organs of the Will must move the muscles of the legs to go and get it.

Wisdom and Will are always the instruments to serve Love, from the low realm of sensation up to the exalted sphere of religion. Love without



Mimetic Law .- In every animal tissue the direction of its fibres, if it have any, infallibly shows the direction in which its forces are and can be manifested. Thus the fibres of a muscle, running lengthwise, show that this is the line in which it can exert its force. This general law must of course apply fully to the brain. fibres have a definite direction, and this determines their lines of action with regard to each other in the brain, and also the direction in which each one will cause the body to move when it acts upon that. The whole system of gestures, or natural language of the faculties, is a necessary product of this law. The location of the organs, and their direction being the same in all cases, the gestures which express any given passion or emotion must be the same in all ages, and all nations. And this is the fact. From the gestures alone we can prove that the organs of the brain are correctly located. Twelve hundred million human beings daily reproduce these decisive facts and no other interpretation can be put upon them. It would be extremely absurd to suppose that results so uniform and so universal could take place without the operation of such a natural law as the one here laid down.

Character in the Gestures.—Through the front organs we are attracted to what is before us and move forward. The organs of the back head repel us from what is behind us. The top head faculties elevate the features, the body, and the limbs, but the lower faculties depress all these. Many of these motions are matters of common observation. Everyone has noticed the lofty bearing of Dignity, the bowing of Submission, the

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erect attitude of Firmness and Integrity, and the reaching down and forward of Appetite.

SEPHERVA.

In order to understand the subject of gestures clearly, we must remember that in the spinal cord the fibres from the right hemisphere of the brain go across and supply the left side of the body. This crossing is shown in the mental mechanism. Take, for example, the organ of Amity or Friendship. Its fibres in the brain point up, forward and outward. In expressing friendship by grasping the hand of a friend, we raise our right hand in the direction of our organ of Amity on the left side of the head. In embracing a friend in our arms, the same direction is observed. In reach ing the hand down to take our food, the right hand follows the organ of Appetite on the left side, and vice versa. Gestures may be made either from or toward ourselves. In either case the line of the organ is followed. There are many compound gestures, produced by two or more organs, and taking a line of direction between By comparing the map of the mental organs with the drawings of the brain, the direction of all the gestures may be readily learned.

In the lower figure at the commencement of the fourth chapter, the organs of Caution and Economy on the *left side* draw the speaker's right hand toward himself to grasp his staff. His right organ of Caution moves his *left* hand outward to warn his hearers of impending danger. His finger points upward in the line of Stability to the source from which an everlasting kingdom shall proceed and be established.

Intellectual Motions.—The lines of the front brain point forward, and when a person is en-

gaged in study or thought the head naturally inclines forward. It is seldom held high, and never is thrown back under intellectual excitement.

The Perceptive organs cause downward and forward motions of the head, as when we are picking up or closely examining objects. The larger number of the objects upon which the perceptives act lie beneath us or upon the surface of the earth.

The group of Memory is horizontal in its direction. Observation points the forefinger almost directly forward, and slightly upward when acting under the influence of reason, as when pursuing a close and direct train of thought. Observation relates to what is directly before us. Memory, Time and system are more external, and relate to events as they recede into the past and form fixed periods and systems of action.

Reason produces forward and upward gestures, as we see in a speaker who is reasoning and explaining logically. Prevision usually acts with Inspiration, and thus produces motions more lateral, and broader in their sweep. Reason produces similar ones when acting with Imagination. In planing and using a chisel, the movements are in the line of Construction, modified by Destruction and Aggression, as a part of the force comes from the latter organs.

Kindness throws the head forward and up, and raises the hands in the same direction when we are rendering assistance. The language of Friendship has already been mentioned.

Gestures of Affection.—Faith raises the hands above the head, slightly forward, and near each other, with the palms inward. This is the right at-

itude for expressing the true feelings of this lefty faculty. The act of bowing the knee comes from the organ of Serving, low down on the side head. It seemed appropriate enough in those ages when men regarded the Deity as a despotic monarch, only a little above themselves. The highest and purest religious fervor requires lofty, outspread gestures. And every artist gives these to the apostle and religious teacher, because they naturally express the superior sentiments. Hope, Belief, Zeal and Victory, all elevate the limbs and the features.

The organs of Sexation cause the upward and forward motions of caressing, the clasp, and the embrace. As we shall see hereafter, these organs are on the minor axis of the brain, and hence may use the gestures of all the other faculties to ex-

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press themselves.

The natural motions of Parental love are seen in the act of nursing an infant, supporting and carrying it in the arms. Modesty and Reverence usually draw the hands close to the side of the body. When acting under the influence of the higher social faculties they may raise and clasp the hands. Reverence may greatly expand the feelings when we are gazing upon sublime scenery in nature, or when contemplating the grand achievements recorded in history.

Appetite, Feeling, and the other senses point to the earth. to their objects of relation and attrac-

tion on its surface.

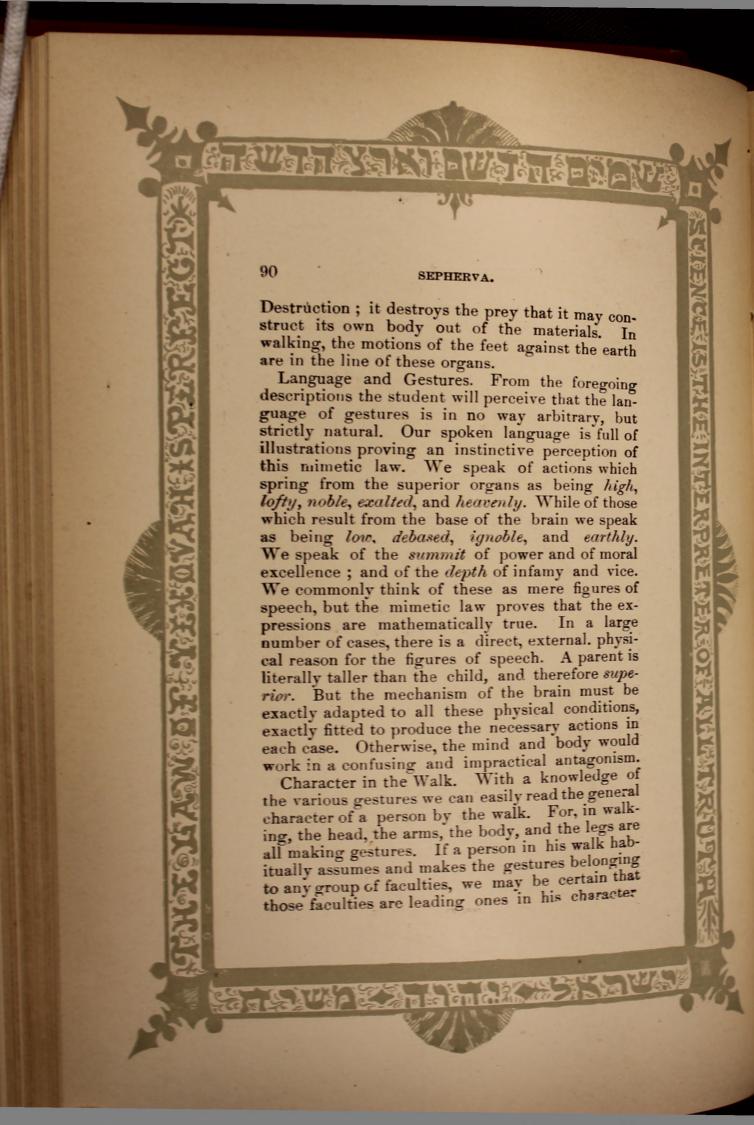
The motions of Affection, as a whole, are of a gentle, refined, soothing, and quiet character, and they produce attractive and winning manners in social intercourse.

Gestures of Volition.—The vigorous organs give the upright walk, the firm, erect, and manly carriage of the head and person. Integrity raises the hand directly upward by and above the side of the head. Justice may also be expressed by extending both hands horizontally forward with the palms upward. The hands then take the line of the intellect and represent the idea of balancing, one of the functions of Justice. Caution and Economy, pointing out from the right side of the head, may bring the left hand in toward the body. They may also throw the hands outward, as when we reach out the hands to protect ourselves from danger at the side of us. see that the same organ produces motions both from and toward the person. Both motions are in the same line of direction that of the mental fibres.

Dignity gives the erect attitude with the head and shoulders thrown slightly back, imparting an air of self-possession more marked and imposing than the simple attitude of Firmness. Laudation throws the head more to one side.

Defence moves the limbs back and to the sides, as seen in animals when kicking. The motion of striking with the fists is in the same line, but reversed by the signs of Defence in the back of the hand and arm. Economy draws the hands inward, as in the act of gathering materials.

Destruction, Baseness, and other impulsive organs cause motions still more downward than Defence, as we see in the acts of rending, tearing down, destroying, and stamping. When a carnivorous animal strikes its prey with the paws, the motions are in a line between Construction and



In the walk of a tall, healthy, well-balanced man, both Dignity and Firmness may be seen. Where these qualities are deficient in the character, the stooping posture and unsteady gait will be assumed. The mincing, affected walk of the dandy, and the heavy, ungainly tramp of the boor, each express corresponding mental characteristics.

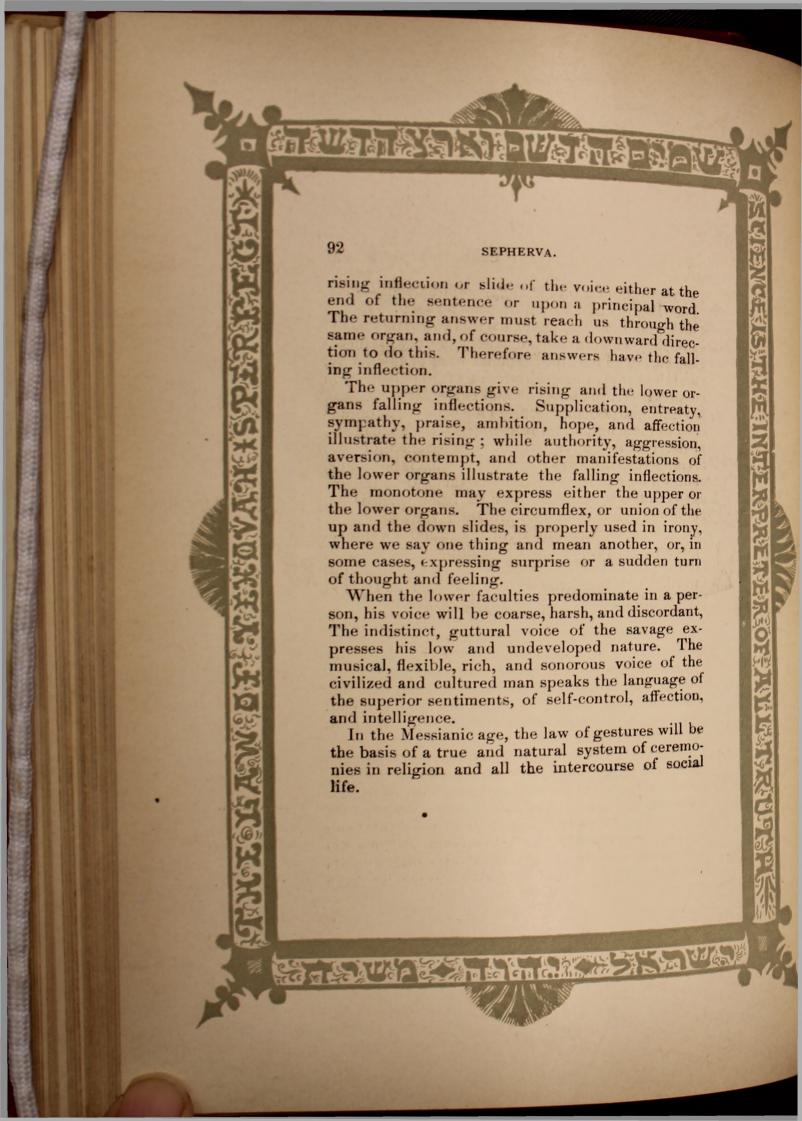
Effect on Locomotion. The attractive organs are in the front, and the repulsive ones are in the back of the body. As a consequence of this arrangement, we are attracted to what is before us, and we move forward. At the same time the organs of the back head repel us from what is behind us, pushing us forward, and thus acting in concert with those in front. Attractions and repulsions are proportional to destinies, for they are the motor forces which carry us onward and upward. This is as true in the physical as it is in the mental sense.

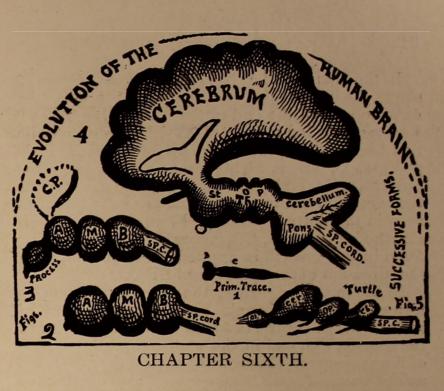
The upward attractions center in Religion, and the forward ones center in Retention or the group of Letters.

According to the law for the composition of forces, their united action is on the diagonal line between them, and this takes the organs of Culture, the line of progress and reform. It is upward and forward.

The organs of the side head are alike on each side, and consequently we are equally attracted or repelled from each, so that these do not determine our course.

The Voice and Character. The vocal gestures or Inflections follow the mimetic law. Thus the organ of Reason, which asks questions, points somewhat upward. Hence, all questions have the





PHASES OF LIFE.

The mental faculties are subject to a law of evolution which embraces in its sweep the entire career of vertebrate life on our globe.

The human brain proceeds from the development and rule of the organs at the base and back to those of the top and front. This gives three great phases of life, Preturity. Maturity, and Senility.

From the first moment to the close of fætal life, the brain presents a constant increase in its complexity of structure. At different parts of this period, the embyro resembles, in succession, the members of an ascending series of the lower animals; but the brains of these lower animals are arrested, some at a low and some at a higher point, that of man alone passes onward to completion.

In the chart of the Nervous System, figure 3 shows the embryonic evolution of the brain. An enlargement of the end of the "Primitive Trace" becomes divided into three vesicles, front, middle and back. From the front one of these a little process, C, arises. This process enlarges, turns upward, and increases in size until finally it forms the cerebrum or the principal mass of the brain, as seen in the dotted outline. From the back vesicle, the cerebellum, CB, arises. The developing force in this growth is applied from behind, from the direction of the spinal cord SPC.

In the insect, figure 4, the nervous system is formed on a very simple plan. A collection of cells or nerve centre, is found in the head, CE, in the thorax, TH, and in the abdomen, AB. Bands of fibres connect these with each other. In the spinal cord of man, the centers are continuous with each other, and the fibres are outside of them. The first stage of growth in the human brain, is as complex in structure as the mature insect.

In the ameba, the whole animal is so extremely simple in structure that no nervous system is required to establish a sympathy of action between its different parts The few necessary sympathetic impulses are conveyed from cell to cell through its tissues, just as they are in the carnivorous plants.

Heredity.—An organic being resembles its parents with such variations as are induced by the temporary activity of special organs or functions in them during its pernatal existence, and also such as are caused by the external influences

which bear upon it after birth.

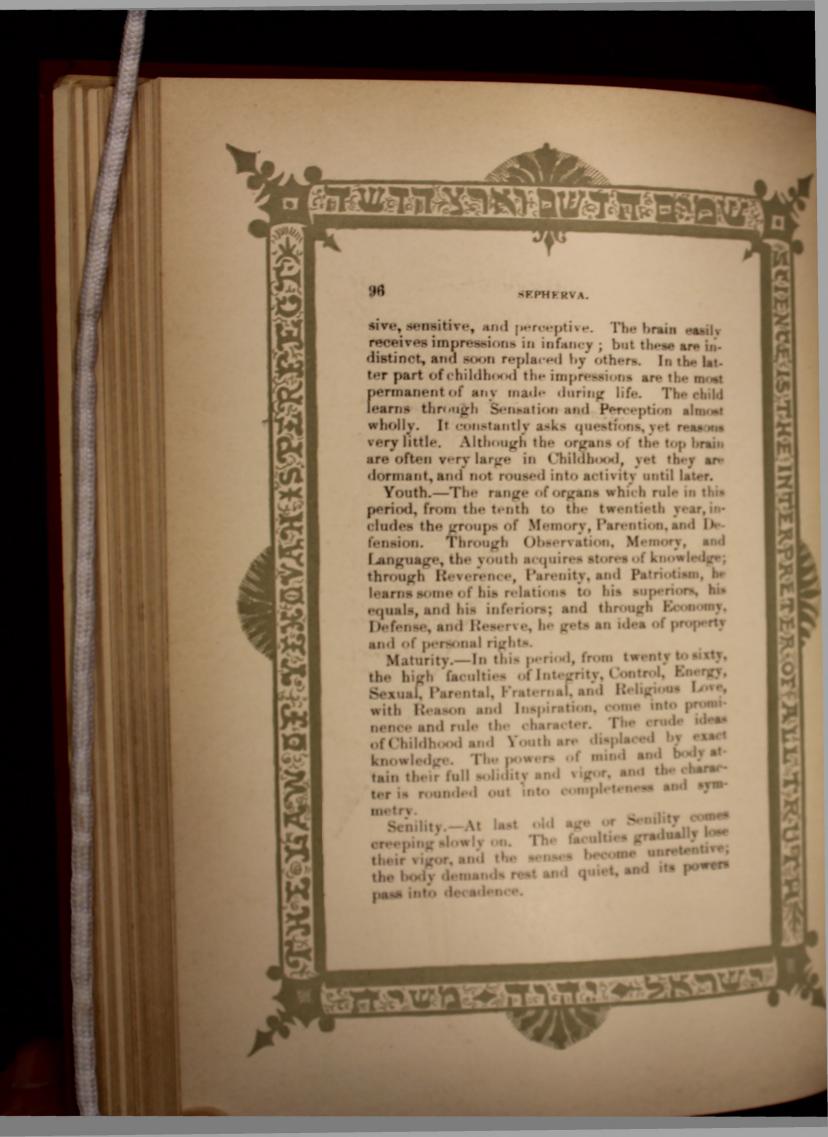
All impressions made upon the mind and body of the mother during the prenatal phase are transmitted, in a greater or less degree, to those of the child. If the parents exercise their higher faculties during this period, the child will be superior in mental endowments. If they exercise the lower faculties chiefly, it will be inferior. The law of Heredity places within our voluntary control a powerful instrument for human exaltation. It is for the vital interests of society that all parents should have the favorable conditions which these laws demand. Both the parents and society are responsible for the organization of every child. They can make it good or bad as they choose.

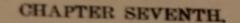
The child, after it reaches maturity, is to be a member of society forty or fifty years, four times as long as it is directly dependent upon its parents; therefore society has a much greater right than the parents, to control the child's develop-

ment and education.

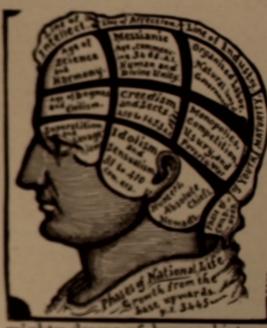
Phases of Personal Life.—The brain is not perfect at birth. It must pass through phases of development each well marked at its central period, and at their points of union insensibly gliding into each other. We may consider life, after birth, in three phases. The ascending phase of Preturity, includes childhood and youth. The central phase of Maturity is the highest altitude of life. It is succeeded by the descending phase of old age or Senility. Each phase is marked by the dominant activity of certain faculties.

Childhood.—During the periods of Infancy and Childhood, from the first to the tenth year, the groups of Impulsion, Sensation and Perception rule the character. The child is restless, impul-





EVOLUTION OF SOCIETY.



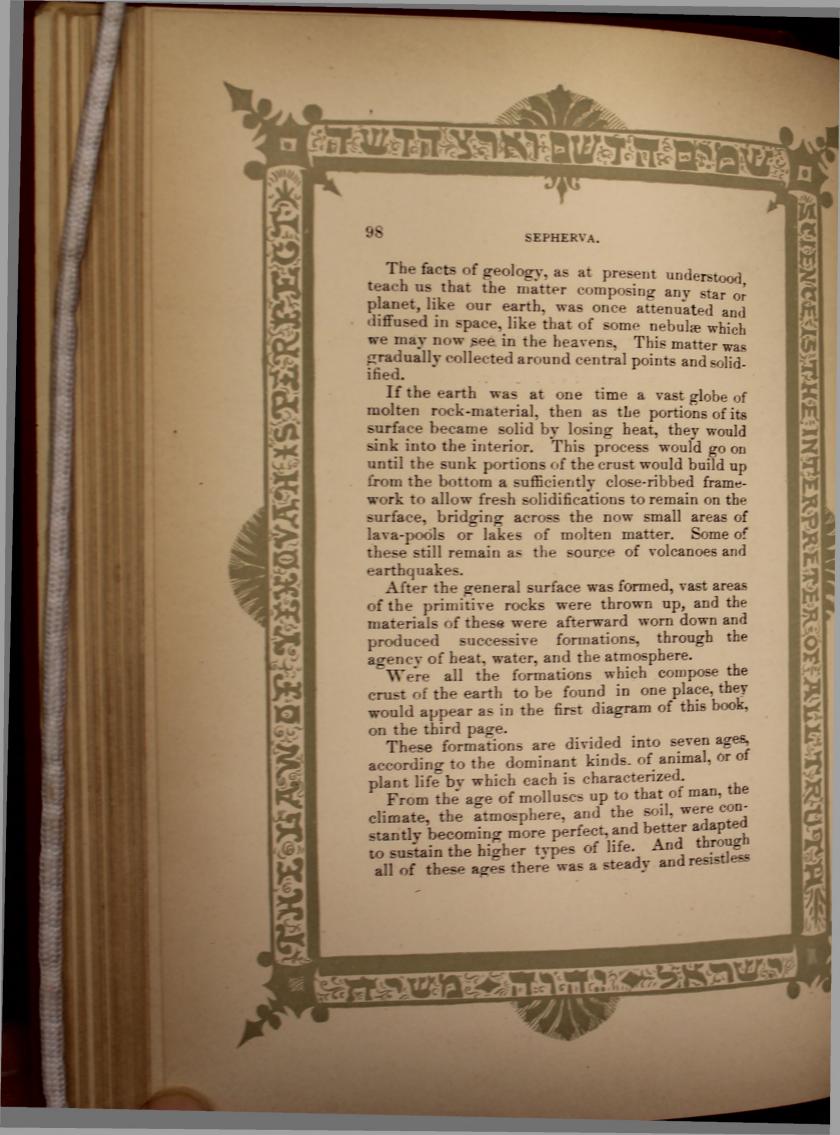
The voice of inspiration and the teachings of science unite in proclaiming the exalted social destiny of man.

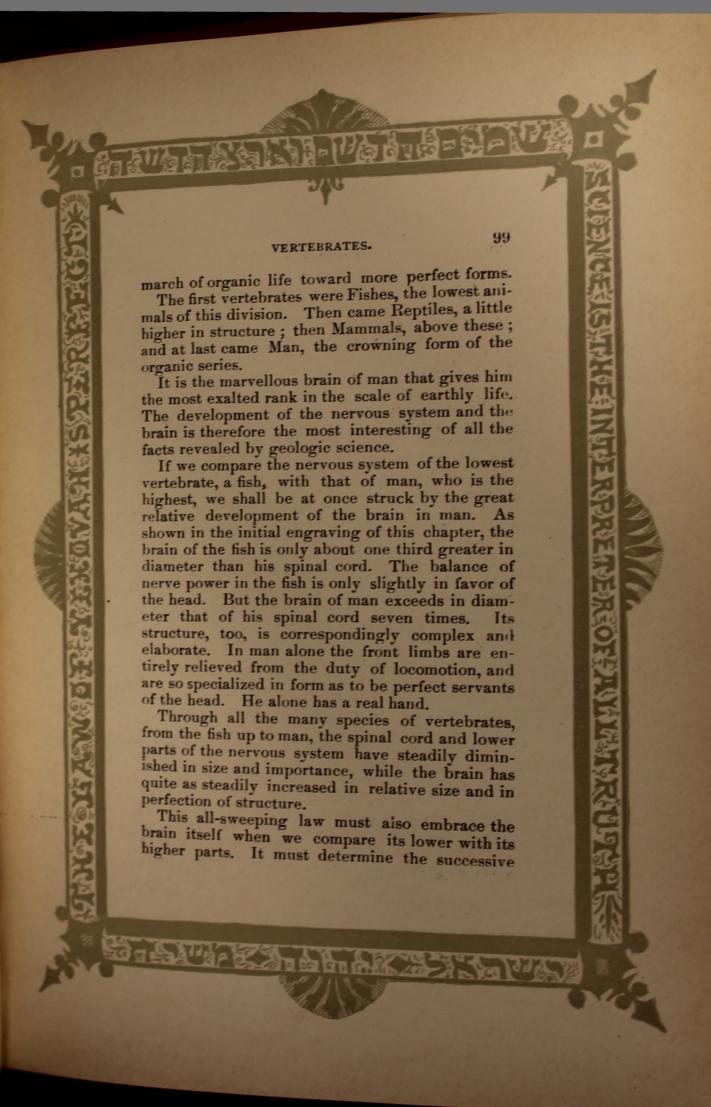
The advancement of the human race in past ages has not been guided solely by the caprices of statesmen and kings, nor by the fluctuating impulses of men. The

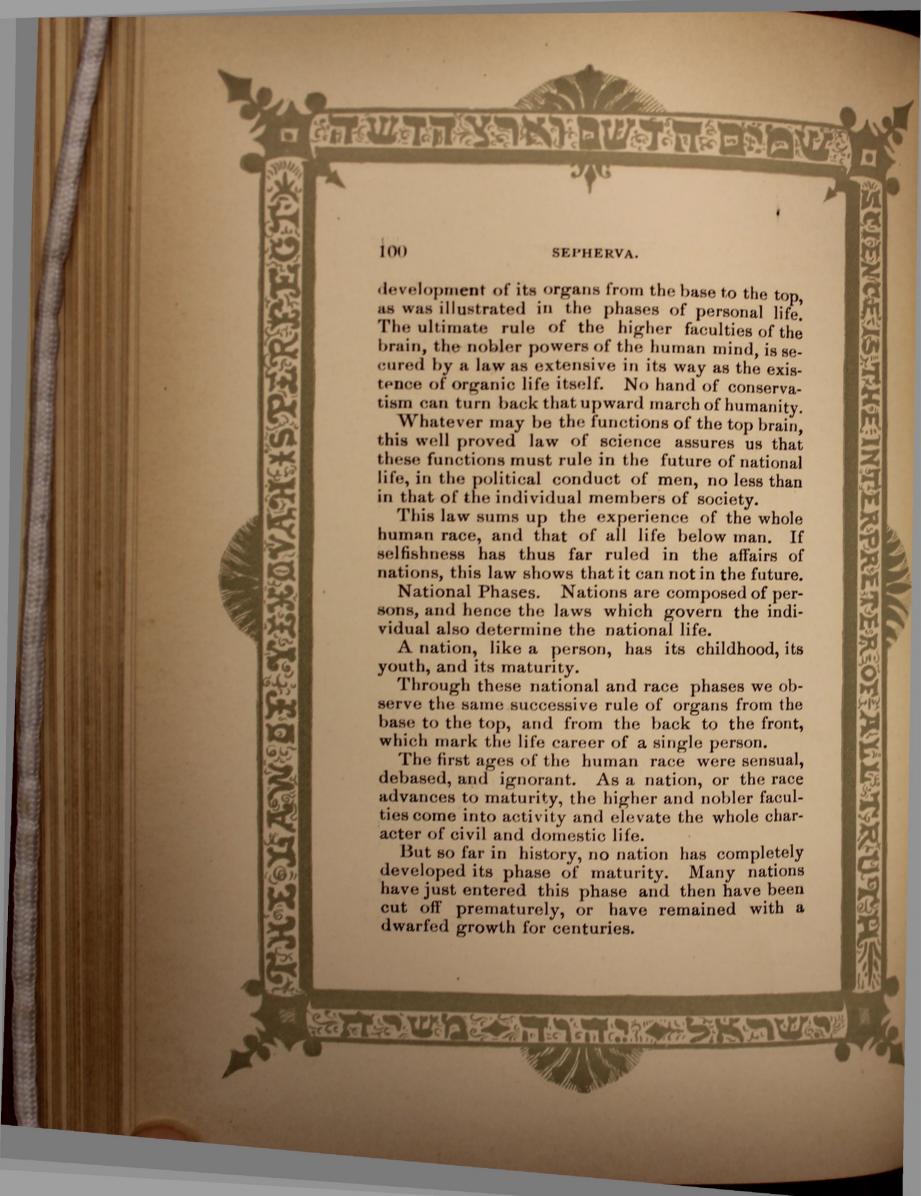
mighty drama of human history has been an impressive and majestic procession, moving forward under the dominion of eternal laws.

These laws of development are not only an inherent part of the nature of man, but they also control the physical world, and have their center in the Life of the Universe.

In the fossil-written record of this earth's history we may examine its many steps of preparation for the noble advent of man.







This part of the law of evolution is regarded by all scientific men as established by the clearest of proof. We may safely build upon it, as an ever-lasting foundation. We shall first see what changes this law has produced in the past, and then show what it points out in regard to the future of national life.

On three great lines of movement we may trace the influence of higher and higher faculties, as nations pass through the phases of childhood, youth, and maturity. The lines of Intellect, of Affection, and of Industry are separated in the engraving by dark upright lines. Each one is sub-

ject to the same great law of development.

In the childhood of the race, the low faculties of Mobility, Destruction, and Aversion, lead to absolute forms of government. The most successful warrior and hunter becomes the chief of the tribe by his prowess. Labor is insulated, it is confined to hunting, fishing, and pastoral life, except in a few localities where a rude earth culture is very

In the phase of national youth, the higher organs of the Defensive group lead to forms of government in which the power of its rulers is limited by fixed laws and customs. The war power and the money power are then regarded as the true indications of a nation's rank in greatness. Labor then assumes the form of competitism, a fierce strife of the few to accumulate wealth from the labor of the many. This phase produces war, monopolies, competition, usury and poverty.

When a nation, or the race, reaches maturity, the group of Rulership comes into full power in government, and it is under the guidance of the H S S S S S S S

groups of Science and Culture, which have then become dominant in the front brain. Labor now takes the form of combinism, it secures the organized unity and specialization of all industrial interests.

The line of religious evolution begins low down in the Sensitive group. It is idolism and sensualism, a worship of the objects of sense. In national youth, under the influence of the faculties of Familism and Memory, Religion passes into the phase of Creedism, where the doctrines rest upon the real or the supposed authority of ancient inspira-This was the condition of Christianity and of Judaism in the middle of the nineteenth century. Reason does not yet exert its influence, and hence religious doctrines are shrouded in mysteries, are separated from practical life, and are divided among hostile sects. Religion finally becomes a conscious union of the human with the divine life, and the organized unity of the human race, as exemplified in the Messianic reign of peace. It is based upon an intelligent obedience to the eternal laws of spiritual harmony.

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The line of Intellectual growth gives us superstition and savageism as the product of the perceptive faculties. The succeeding age of dogmatism and civilism is produced by the group of Memory. Science and harmony complete the upward march on this line.

Each line of advancement is supported by the other two lines at every successive point. Thus the creeds of religion are sustained by dogmas of the intellect and by competitive labor. Idolism is sustained on one side by superstition and on the other by absolute forms of government. Messian-

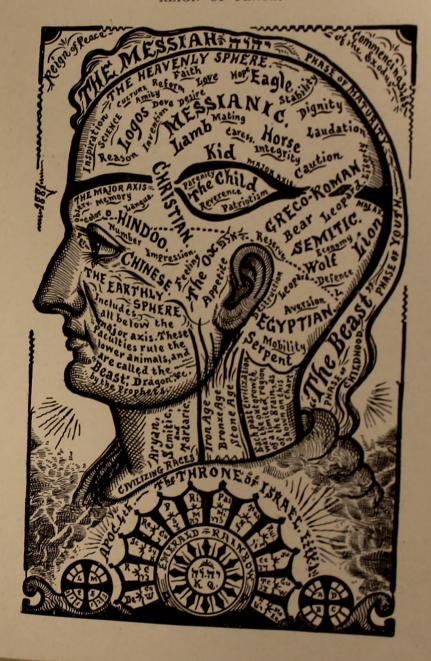
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REIGN OF PEACE.

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MAN AND SOCIETY.

MESSIANISM.

WISDOMATE.

CULTURE.

Receiver-Amity. Cultess-Reform.

SCIENCE,

Scientist—Reason. Symbolist—Inspiration.

LETTERS.

Recorder—Memory. Curator—Observation

ART

Designer—Form Costumist—Color. LEGISLATIVE.

Schools-Teachers.

Libraries-Museums

Secretaries—Curators—Senators. Representatives.

CIVILISM.

SOCIALATE

RELIGION.

Pastor-Faith. Minister-Love.

MARRIAGE.

Ritualist—Desire. Matron—Mating.

FAMILY. Teacher.

Nurse.

HOME.

Purveyor—Appetite. Sanatist—Feeling. CHURCHES.

Clergy—Priests—Bishops, Sunday Schools.

Agricultural Soc.—Hospitals. Temperance—Insurance.

LABORATE.

RULERSHIP.

Ruler-Dignity. Elector-Laudation,

LABOR.

Justice—Integrity. Censor—Caution.

WEALTH.

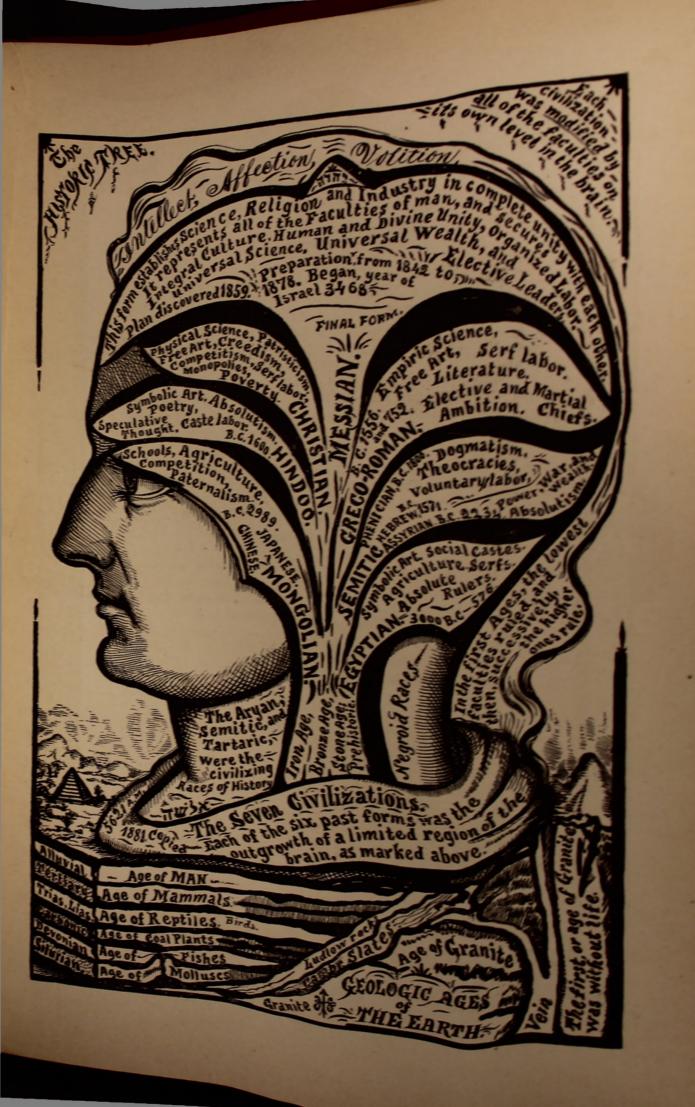
Guard-Defense Treasurer-Economy.

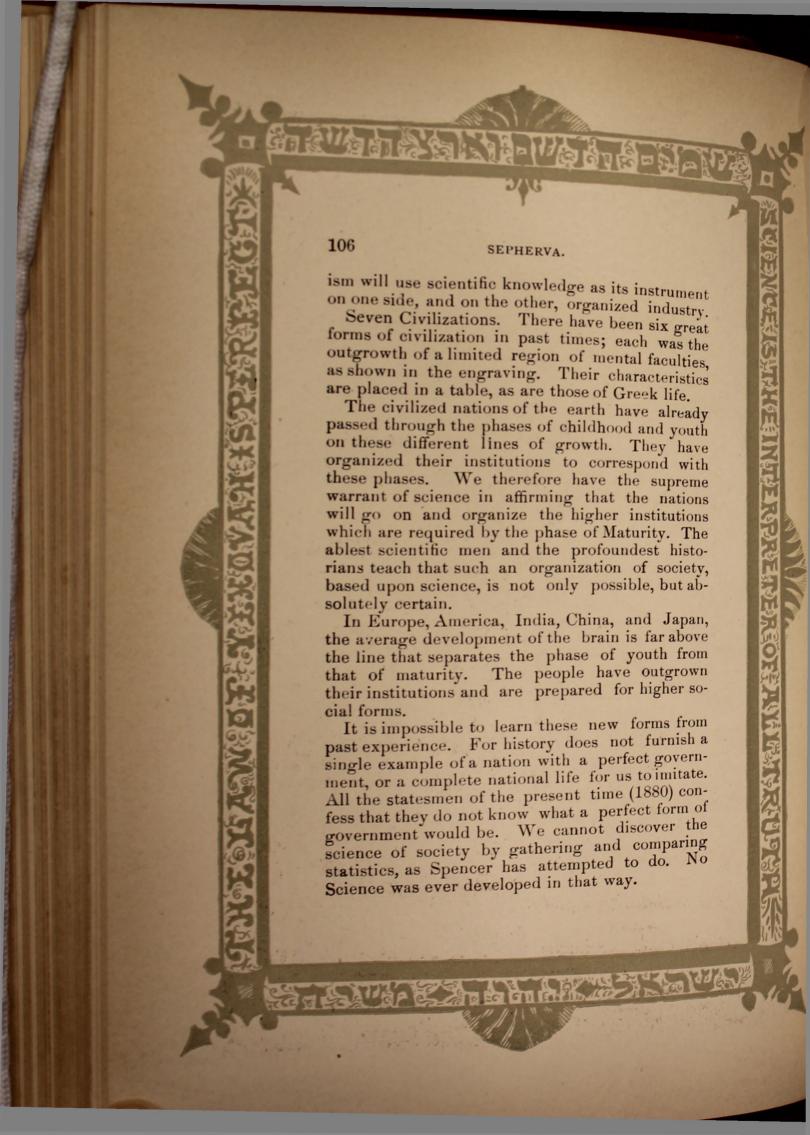
COMMERCE.

Engineer-Mobility. Herder-Aversion. JUDICIAL & EXECUTIVE.

Judges-Courts. President, Governors.

Cabinet—Ministers. Marshals—Police.





We must have a new method. In the railway, the steamboat, the telegraph, and numberless improvements of modern life, we see that the superior methods of modern science have supplanted those of mere experience. Not one of these great inventions was produced by imitating the past. Science puts exact knowledge in place

of mere guesses and imitation.

The time has now come to extend the sure and safe methods of science into the domain of politics. And science will quickly tell us why the old methods have been and must be failures. It will explain why, "after nearly two thousand years of Christian rule, we find the mass of the population struggling for a bare existence, like ravenous brutes for food. In the most favored of countries, men fight for individual advantage, everyone for himself, as if the golden rule had never been laid down, and men were governed by the cruel law that life is a fight in which the strongest conquer and the weakest go to the wall."

In regard to the true constitution of society, the argument of science is a direct statement of facts which cannot be denied or set aside. They are all self-evident, when once stated, and they also contain the most positive proof that the new methods will be entirely successful, as soon as

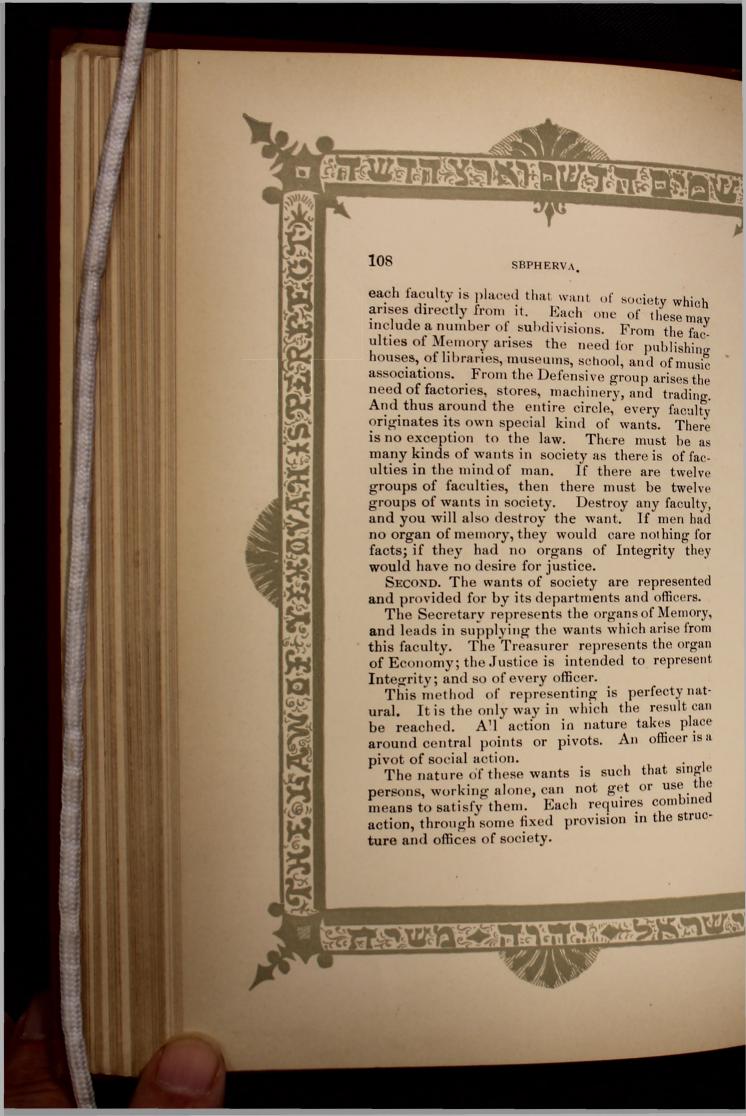
they are applied.

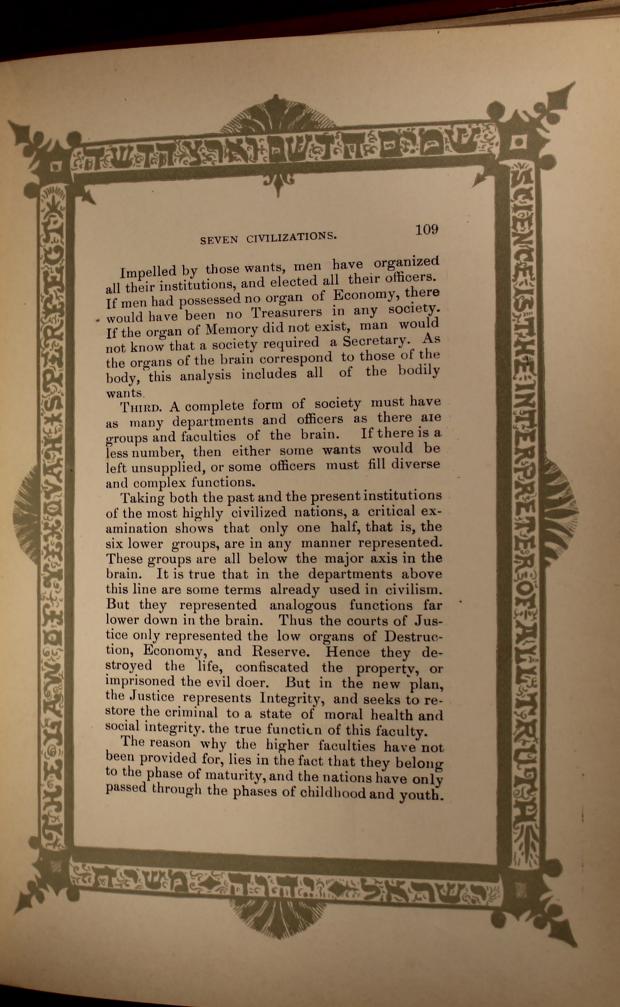
The argument may be summed up in three

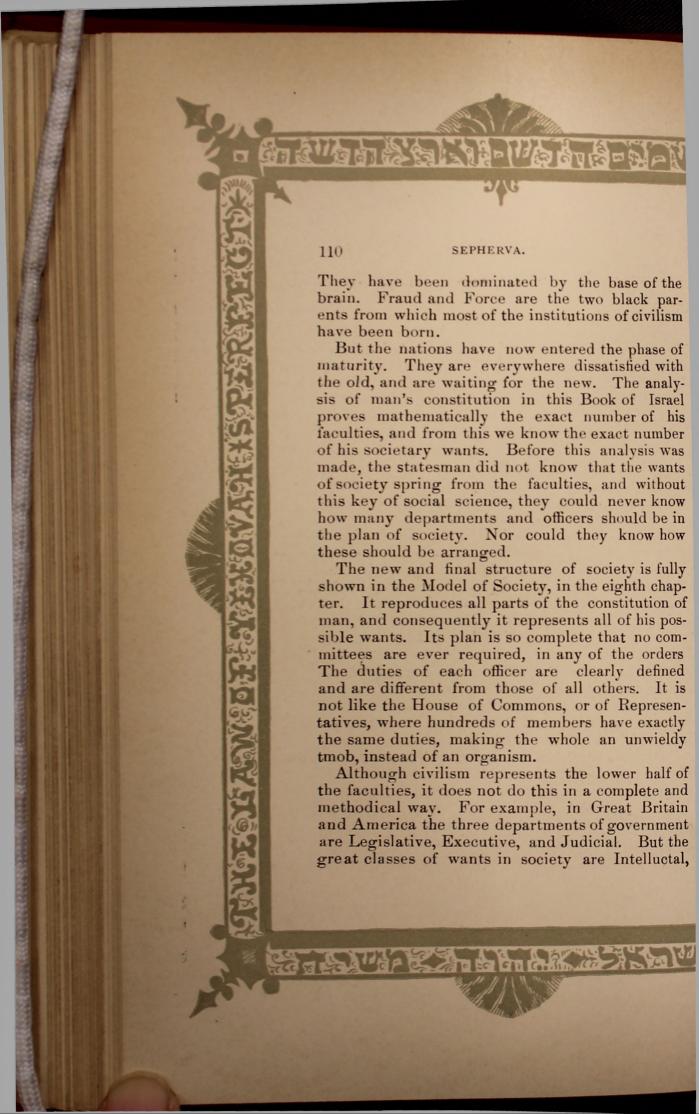
self-evident propositions.

FIRST. The collective wants of society arise from each of the mental faculties, and we can know the number of these wants only by knowing the number of the faculties.

In the engraved archetype of society, after







Social, and Industrial, for they arise from the great divisions of his nature, from Intellect, Affection, and Volition.

The table of Man and Society presents a fair and just comparison of the new with the old structure of society. In the first column are placed the titles of the Leaders in Israel, and after each of these is the faculty which that officer represents. On the right side of the page are the corresponding parts of civilized institutions. While civilism represents some of the single faculties by fifty differently named officers, it leaves fully one-half without any representation at all, as we see in the blanks of the table.

When thus compared with the constitution of man, the structure of civilized society is fatally defective in the number and character of its parts. It cannot give man the highest conditions of life, it can not, and never did satisfy the aspirations of man.

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Not only were the parts of civilized society so sadly deficient, but the natural relations and mutual dependence of its various parts were disregarded, or not established, as we shall now consider under the head of Specialization.

Specialization. Far below man, and extending too, far up through all phases of his national life, is the great law known to scientific men as that of Specialization. It teaches us that in the career of every thing, whether it be the formation of a world, of an animal, or of a nation, the method by which its growth is effected consists in the division of labor or of action. That is, those functions and actions which in the early stages of evolution are performed in a rude and general way by a few

SEPHERVA.

organs or parts, or else by many parts of similar form, are gradually divided up among a greater and greater number of unlike parts, each assum-

ing some special portion of the work.

While in the early stages of evolution there is scarcely any mutual dependence of parts, this becomes greater and greater with the increasing complexity, so that at last the full life and activity of each part is more possible only by that of the rest.

A few examples will show clearly the application of this important law to national life. Thus in some of the lower forms of animals, like the crinoid figured at the head of this chapter, the entire function of digestion is performed by a simple sac or stomach. As we pass upward in the scale of life, we find that in other animals there has been added to this sac various other organs, each doing a special part of the work of digestion. Thus we have a liver added to separate the bile; pancreas to help digest the fat in the food; intestinal and salivary glands to digest its starchy portions, and teeth to masticate. Of course where all of these exist the whole process of digestion is carried on much more perfectly.

THE SERVE WAS TO SECRET CONTROLLY OF SECRETARIES

Now this law of Specialization, this division of labor, governs the social progress of man no less than it does that of his body. For example, in national infancy each person performs every kind of labor pursued by any of the rest. Each man, in a rude way, is at once hunter, farmer, mechanic, and merchant. The savage chief hunts his own game, dresses and cooks it, gathers his own nuts and wild fruit, and makes his own rude clothing of skins, and his ruder hut of sticks and mud. In

later periods, persons who show particular aptitudes for special kinds of labor begin to devote themselves to the kinds in which they excel, and thus the various trades and professions come into

existence. One man makes arrowheads, another blankets, another huts, and so on. Out of, and along with, this division of labor there grows a far greater degree of mutual dependence between the members of society, and this increases just in proportion to the advance in civilization and social unfolding. For the men of each trade must exchange their products with those of the other trades. But while it makes men more dependent, it also makes them more completely individualized. The most highly individualized man is the one who has depended upon the greatest number of his fellow-beings for the materials, the comforts, and the luxuries of life. The farmer is dependent upon the tradesman, the grocer, the carpenter, the shoemaker, and those of a hundred other trades. And conversely, each of these is dependent upon the farmer, and upon all the others. The greater the degree of individuality, the greater is the degree of mutual dependence, and of social unity of action and of feeling.

But while labor remains in the stage of competion, there is no formal recognition of these mutual dependencies. There is no provision to secure organized unity of action. Instead of this we only find a selfish antagonism of interests. Everyman's hand is against that of his neighbor. What is for the interest of one man in civilism, is against the interest of the rest. Such is the state of industry in all civilized nations in this year of

The agricultural society is 1880, common era. not connected with the state government, the temperance society is severed from the schools, commerce is divorced from art, literature is separated from finance, the scientists do not mingle with the laborers, and culture is not made a test of fitness for official positions. No civilized statesman was wise enough to provide for the united action of these dependent interests. Science proves, and experience confirms, their constant and important interdependence. The statesmen have left their connection wholly to chance or accident. The result of this chance-work is that society is a vast aggregation of discordant and mutually destructive organizations. The social structure thus resembles the very low forms of animal life, instead of the higher. In the next chapter we shall see how these different parts of society are adjusted to each other and respond in action by laws which are a part of the very nature of man, and which will produce in the collective, political life of society a rythm of movement, which has its lesser counterpart and image only in the noblest of musical symphonies.

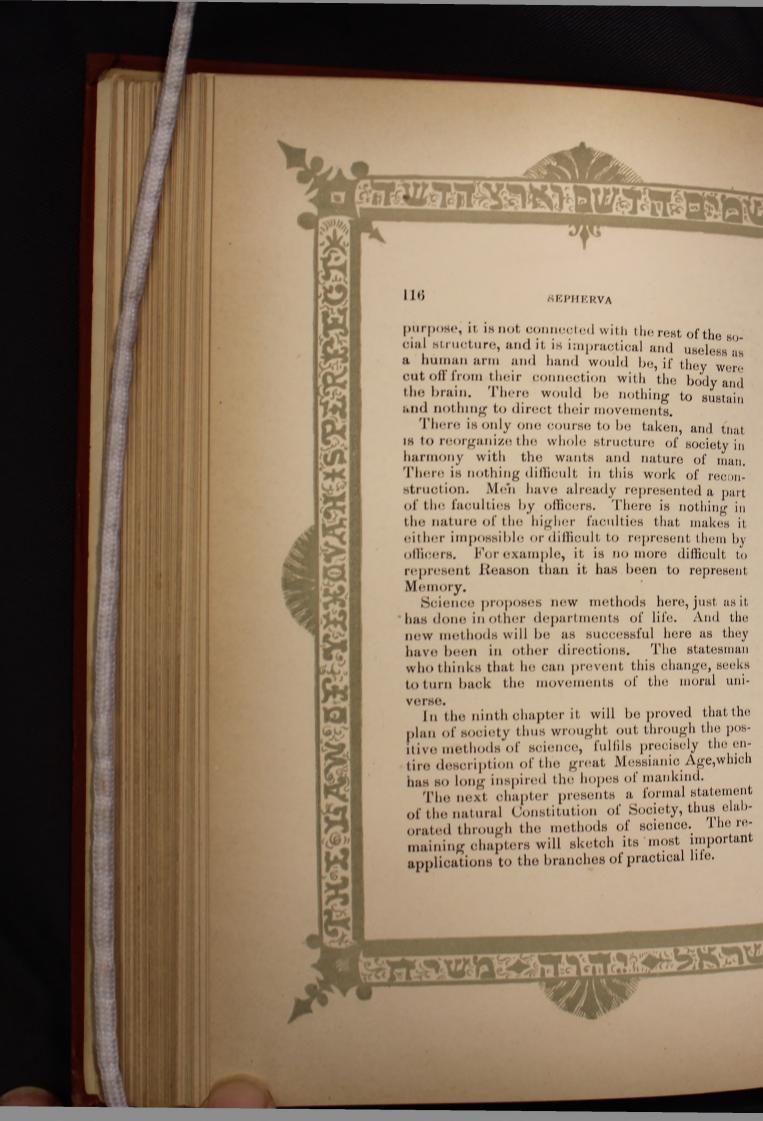
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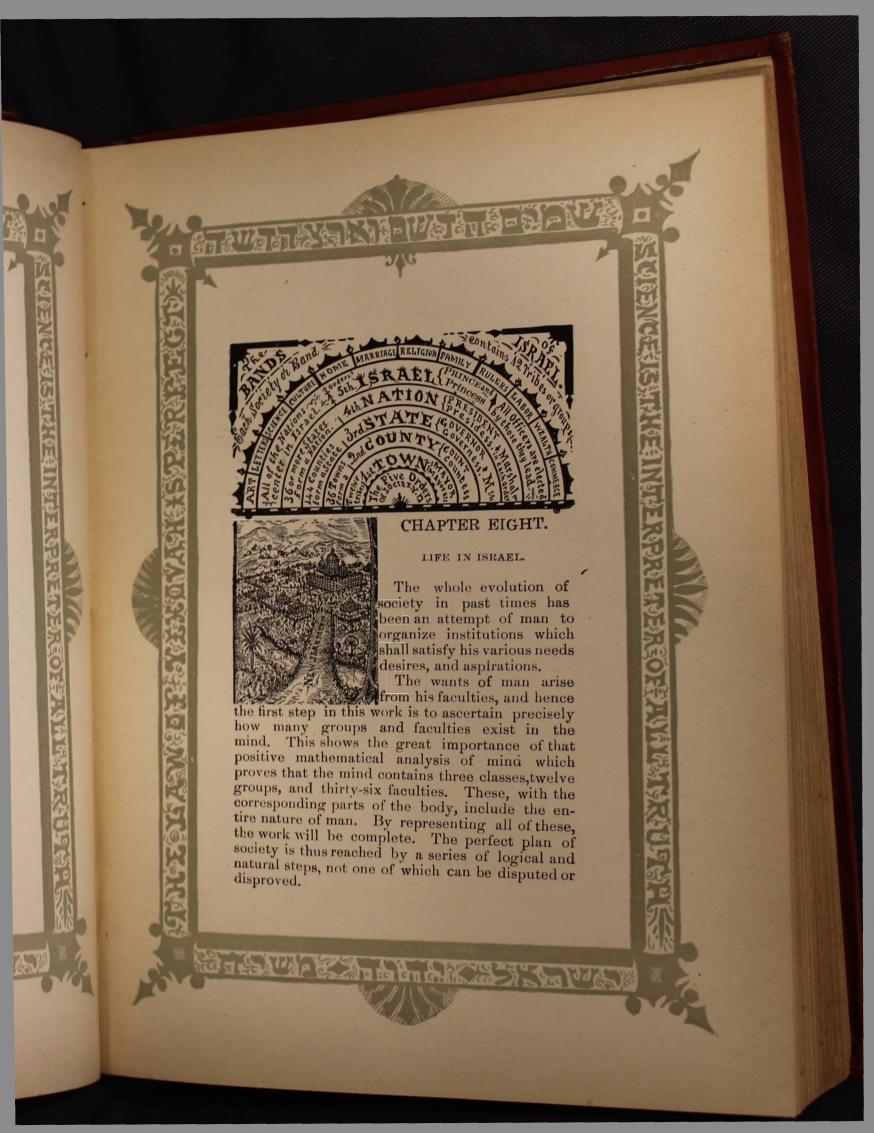
The division of labor in any organism, or in any series of animals, is not affected chiefly or simply by increasing the number of organs or parts. It is accomplished by changing their form and arrangement. For example, one of the crinoids had 300,000 muscles. But these were all alike in form and the only motions they permitted were reaching out its tentacles, grasping its food, and drawing this into its mouth. But in man, the small number of 232 muscles are constructed and arranged so differently from each other that they enable

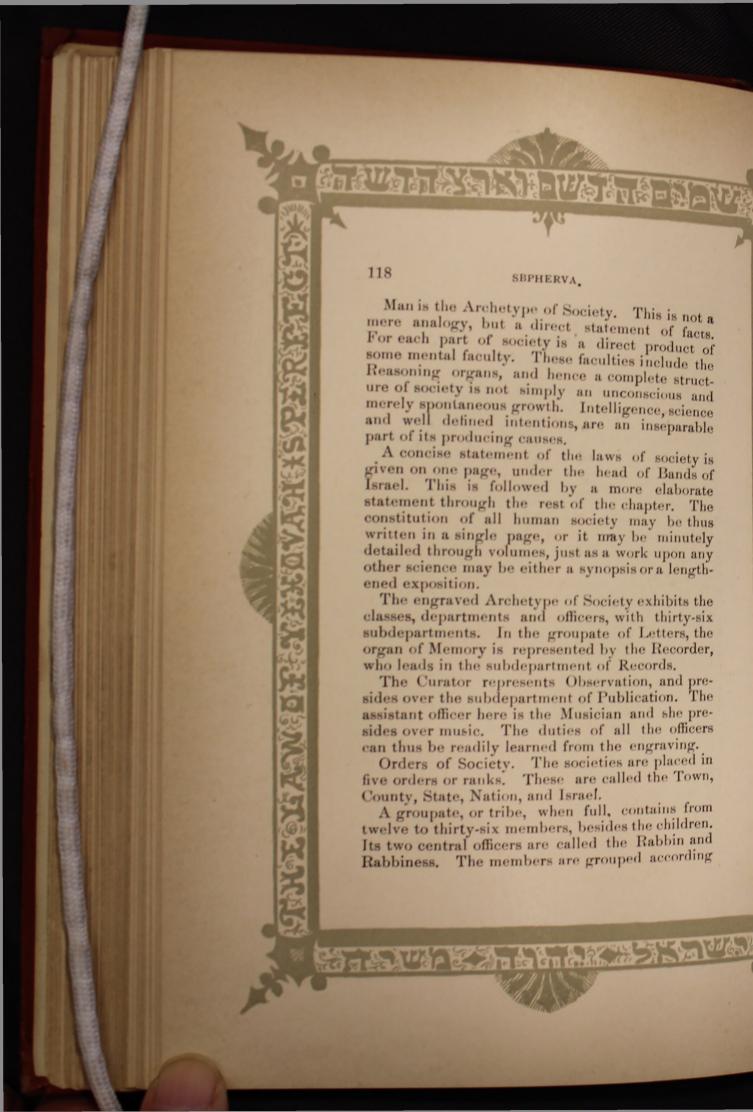
him to perform an exceedingly great variety of movements.

And so, in the true social organism we shall find a less number of officers than in the Christian and other civilizations. The whole structure of society, the duties of its officers, and the relations of its departments, are so clearly defined that a child can understand them. And the youth who learns this in the band where he lives will then have a clear and true idea of the mechanism and the workings of society through all its orders. The expense of conducting the affairs of society are reduced to a very small part of what was necessary in civilism. Ninetenths of all the labor in civilism was misdirected, wasted, or nugatory.

Final Test.—The final and supreme test of any form of government and society is to compare it with the constitution of man. This we have now done, and have shown that the very best of civilized institutions have failed and must fail to secure human happiness. No matter how high the personal character and attainments of its officers may be, the mechanism of civilized society does not admit of the higher functions. It is as if we should put the spirit or mind of man into the body of a horse and compel it to use that body as its instrument of work and manifestation. can see at once that in that case the mind of man could not do any of the great deeds, produce any of the high works of art, or give form to the thoughts which place man so far above the brutes. So in civilized society, when men wish to unite in any noble and necessary work for their common welfare, there is no organized means suitable for their use. If they form an organization for the







to their characters, tastes, and attractions, each groupate being composed of those who have the corresponding group of mental faculties dominant. Twelve groupates form a complete society or Band of Israel, which thus contains from one hundred and forty-four to four or five hundred members. The School is formed on the same plan as the parent society, and the Home School is presided over by the Home groupate.

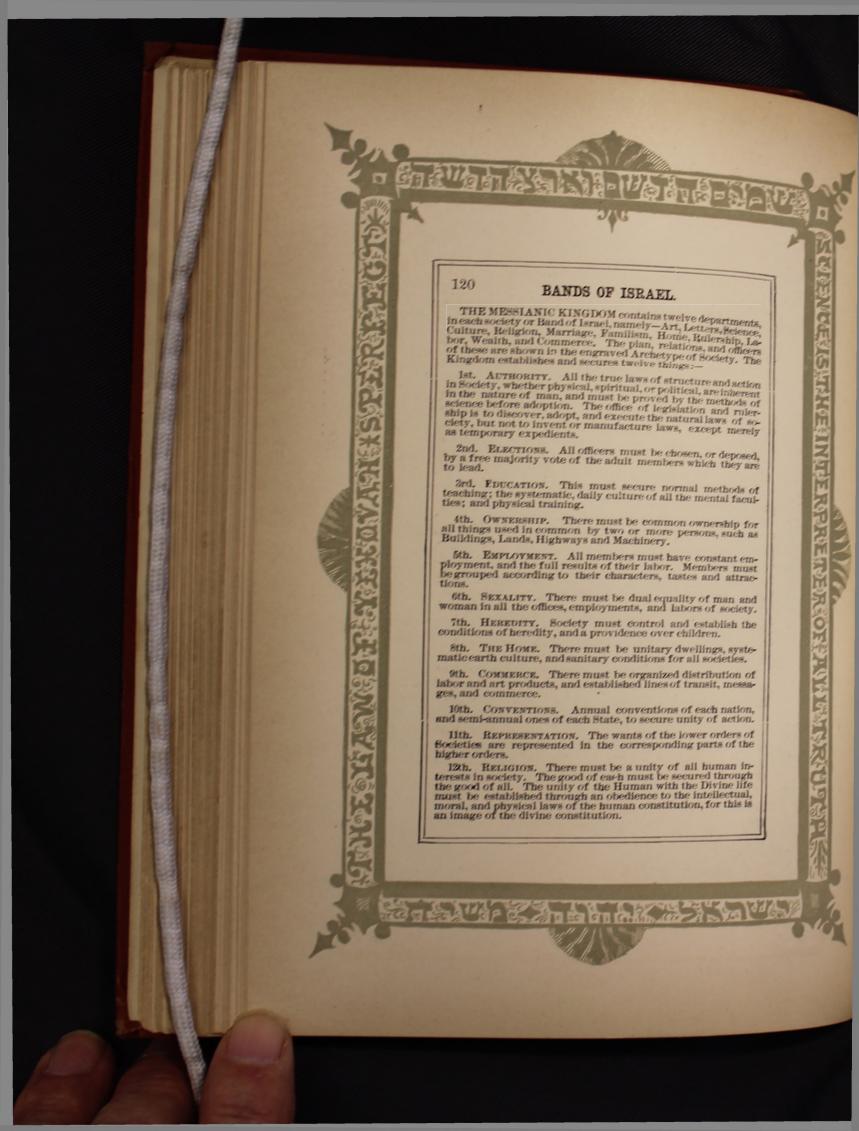
Twelve Bands of the lowest rank are united in a Town. Thirty-six towns are united to form a County. This has the same number and kind of officers in its general government. The State contains one hundred and forty-four counties. Thirty-

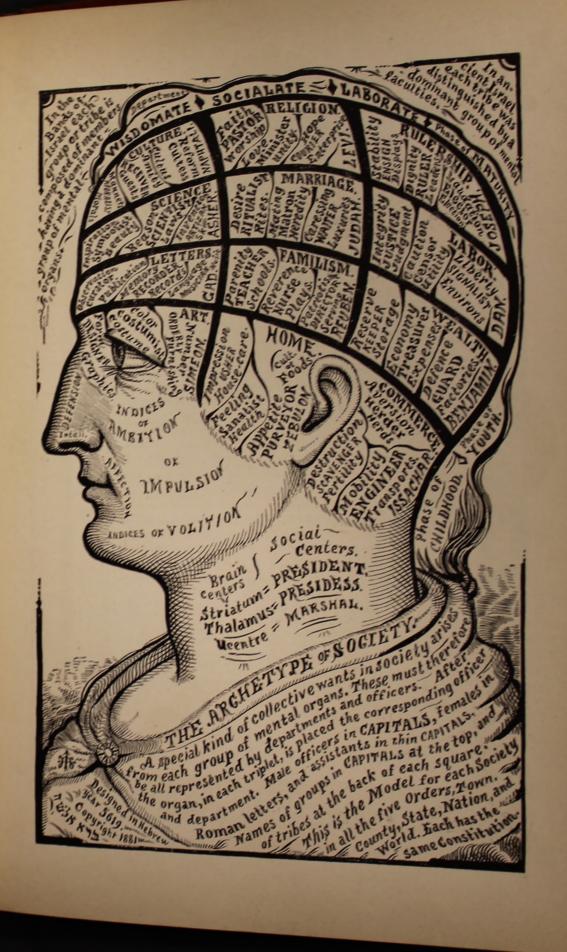
six or more States form a Nation.

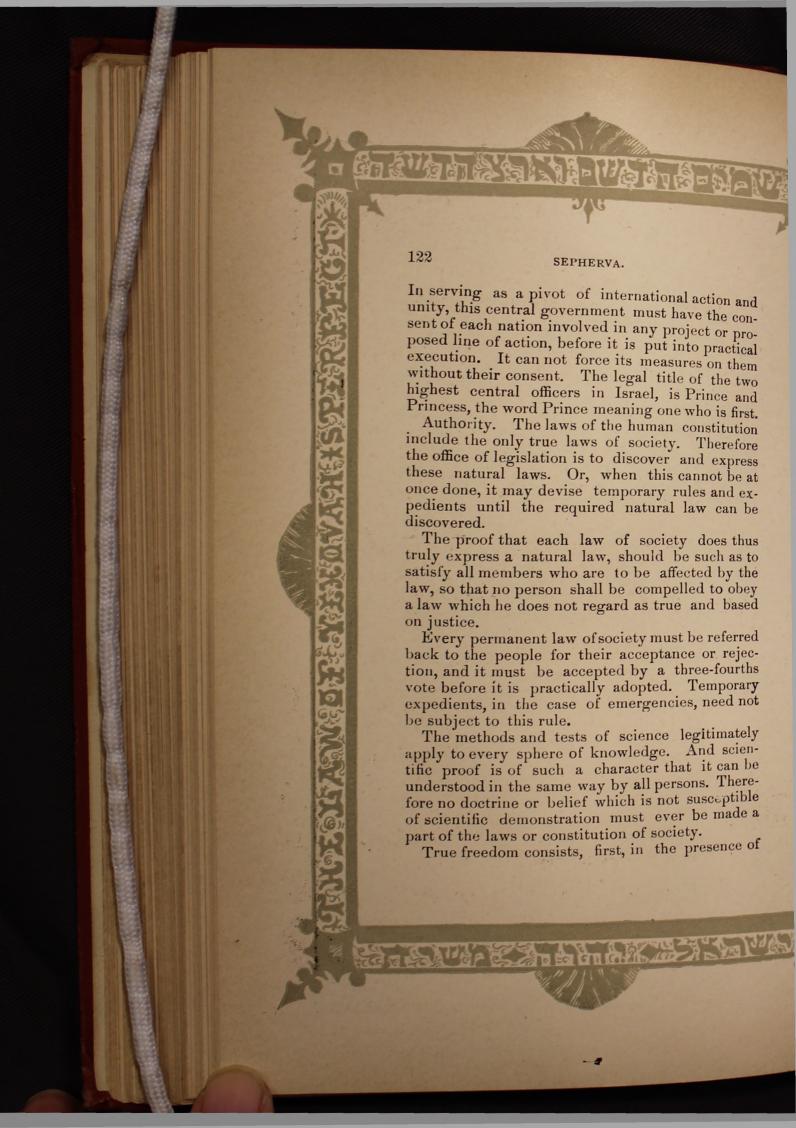
The wants of a Town, of a State, or of a Nation are alike in kind, and they differ from each other only in the degree in which these wants descend to details. For example, a town may require roads which reach no farther than simply through it. Other roads may extend through the State, and others still, through the Nation. But in either case, it is the same kind of a need, and differs only in extent.

If the wants of all these orders are the same in number and kind, they must each have the same kind of officers, and be governed by the same constitution. From the lowest to the highest rank, the Model of Society gives the plan of government in each Order. The only titles changed are those of the two central officers. These changes are shown in engraving at the head of this chapter.

When all the nations of the world are united, the central nation is Israel, with its capital in Palestine Its officers are elected every twelve years.







the right conditions for the full and natural exercise of every faculty; second, in a normal internal state of the faculties; and third, in the absence of false external restraint.

It is not in any sense true that when men enter civil society they surrender certain rights or liberties, in exchange for other benefits conferred. On the contrary, it is only by uniting in organized society, that man can gain the conditions required for the free exercise of each and all of his faculties. If isolated from his fellows, he would lose the freedom to use all his social organs, and none of his other faculties could attain a full development.

Man is adapted by his nature to live in a social organism like the Kingdom where all parts of his nature are represented. By fulfilling the duties of such a life, by acting in concert with others, by loving and being loved, by these alone can any person secure the full measure of freedom. The laws of such a society can not restrict any person's freedom, because they are true statements of those laws which are a part of the nature of each person. The acting forces are from within and not from without.

Every person has a natural right to the proper development, conditions, and use of each faculty. Rights cannot be created or transferred by men.

As all human beings, of either sex and of all races, have the same number and kind of faculties, therefore all have the same classes of rights, and are adapted to the same great forms of government and social life.

The quantity of a right may depend upon the degree to which its faculty is developed. A man with a small organ of Reason would have a right

to exercise it in learning science, but not in leading the scientific pursuits of society.

In every natural law, the inseparable results of obedience are integrity and happiness, and those of disobedience are destruction and pain.

When the laws of society are transgressed, the Justice, Censor, and Scientist, must ascertain what are the natural penalties, and see that only these follow any transgression. The object of all penal measures should be, to restore the transgressor to a condition of normal action, of social health and power.

A member of society might become so vicious or discordant that the other members could not work with him, or he might possibly become dangerous to the peace or lives of others. But he is still susceptible to influences from the higher faculties of his fellows, and these influences must be brought to bear, so that they will make his own higher faculties rule in his conduct thereafter.

In the Messianic kingdom, the chief motives which impel men to crime in civilism will be removed. This is done through the system of integral education, of organized and attractive industry, and of universal wealth. The great criminal causes in civilism are ignorance, intemperance, and poverty.

In depending upon the higher torces to secure obedience, the structure of society is such that it secures the constant rule of the higher faculties in all of its activities. But it still retains as much compulsory power as in civilism, only it is not necessary to use this lower force.

Elections. The act of voting is the formal expression of a choice in regard to officers, laws, or

social action. As all adult persons, of either sex and of all races, possess this choice or preference, therefore all have a natural right to vote, and may exercise this right after the sixteenth year of age.

All officers must be elected by a direct vote of the members which they are to lead and rule. Thus, the members of a Town Band elect its officers, those of all the Town Bands in a County elect the officers of that County, and so through all the orders up to the Nation. But in case of vacancies the Centers may appoint temporary officers until elections can be held.

The assistant officers are each elected by the groupate in which he is to act. The same rule applies to sub-leaders of the subdivisions of departments.

The Curator and Recorder take and record the

Each officer must have the represented faculty large. Thus, the Scientist should have large Reason, and the Justice large Integrity. The Centers should have a full development of all the faculties.

Regular elections are held on the fifteenth day of March, officers entering upon their duties the twenty-first day. In the Nation, elections are held once in seven years; in the State, once in six years; in the County, once in five years; and in the Town, every year. In elections to permanently fill vacancies, notice thereof must be given at least twelve days previous to the election.

The times of election may be changed by a twothirds vote of the members in all the societies.

In case of official misconduct, any officer may be tried before the Justice and Censor of an adjacent society, and the evidence elicited be published The members within the jurisdiction of that society shall then vote for or against his or her expulsion from office, and their decision shall be final in the case, because they had the original right of selection.

Education. The methods of integral education require the elaborate explanations of an entire

chapter, the tenth of this work.

Rights of Wealth. The right to own property arises from the mental faculty of Economy, and hence this right exists in all persons. But man is normally a member of society, and he cannot acquire extensive wealth unless he combines his labor with that of his fellows. The rights of wealth thus become Common and Social, as well as Personal.

Three objects are gained through combined labors. First, Increased power of production. Second, Facilities for making exchanges of property. Third, Economy and Security in the use of wealth.

The grouping of members in the Kingdom secures to each one a free choice in employment. The industries are so organized that the mental and physical labor of each member is fully productive, and no part of it wasted. And each member receives back the full product of his labor, or else receives in exchange with some one else, that which has cost that person an equal amount of labor.

By the law of Conservation every person expends just as much force as he receives, and no more. Hence where the plan or society makes these forces wholly productive, the wants of each member may be safely made the basis for the distribution of the products of labor. There is no danger



that any one will receive more than his just share. This law applies to all the produced necessities and comforts of life.

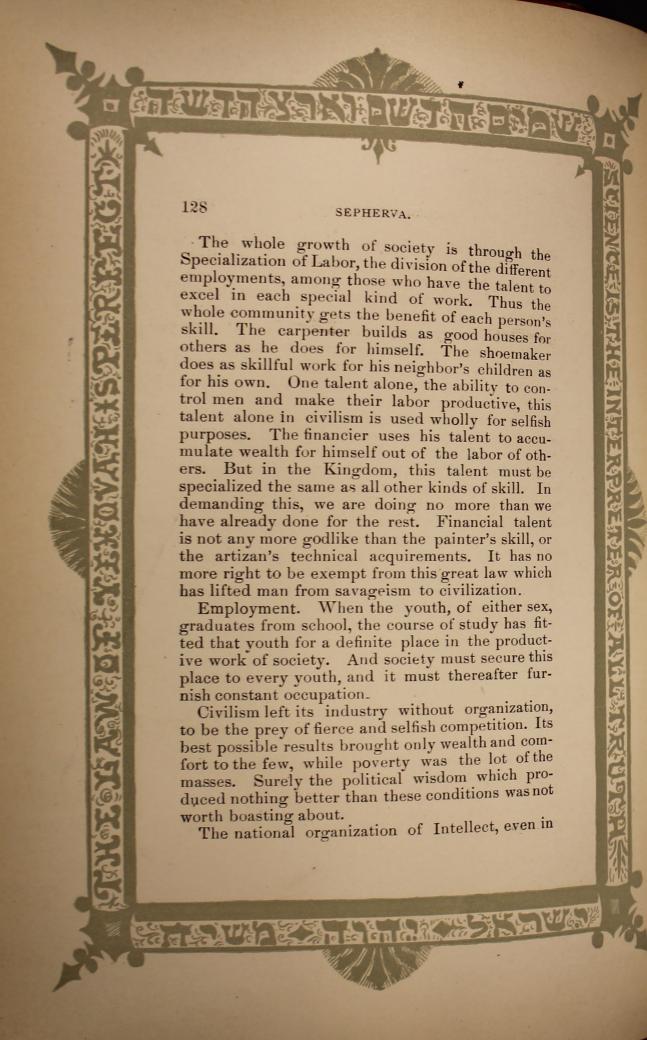
Those things which are used by one person alone, should be owned by that person. This includes clothing, private rooms, and many kinds of tools. In all these, each person has individual character, peculiarities, and tastes to gratify, and what is adapted to one person, is not adapted to another.

All those things which are used together by two or more persons, should be owned by them in common. One person alone could not occupy and use a house, and therefore should not own it. Each Band of Israel would own a unitary home, with common rooms used by all, and with private rooms which are used and owned by each member exclusively, and furnished in harmony with that member's character and tastes.

A railway is to be used by the whole public, and they should be its owners. A farm can only be well cultivated by a group or a society, and should be owned by them. Homes, temples, workshops, storerooms, machinery, lands, and highways of all kinds, are all used by a common public, and should therefore be owned in common.

The Town, the County, the State and Nation, each owns property. For example, the County owns the county roads; the State owns those which only pass through it, and the Nation owns those roads which are national in their extent.

The two Centers, with the Guard, Treasurer, Secretary, Curator, and Marshal, constitute a Board of Trustees in each of the five orders and they have the general care of the property in each society.



the imperfect schools of civilism, secured to every member of society the benefits of a general education. The manifold benefits of wealth will in like manner be secured to all members of society through the national organization of Industry. If it is wise and practical to establish order in the work of imparting knowledge, then it is equally wise, practical and necessary to organize the application of knowledge in the methods of labor, in a complete system of production and distribution. This will displace competitive labor by combined industry, and establish equity in supreme dominion.

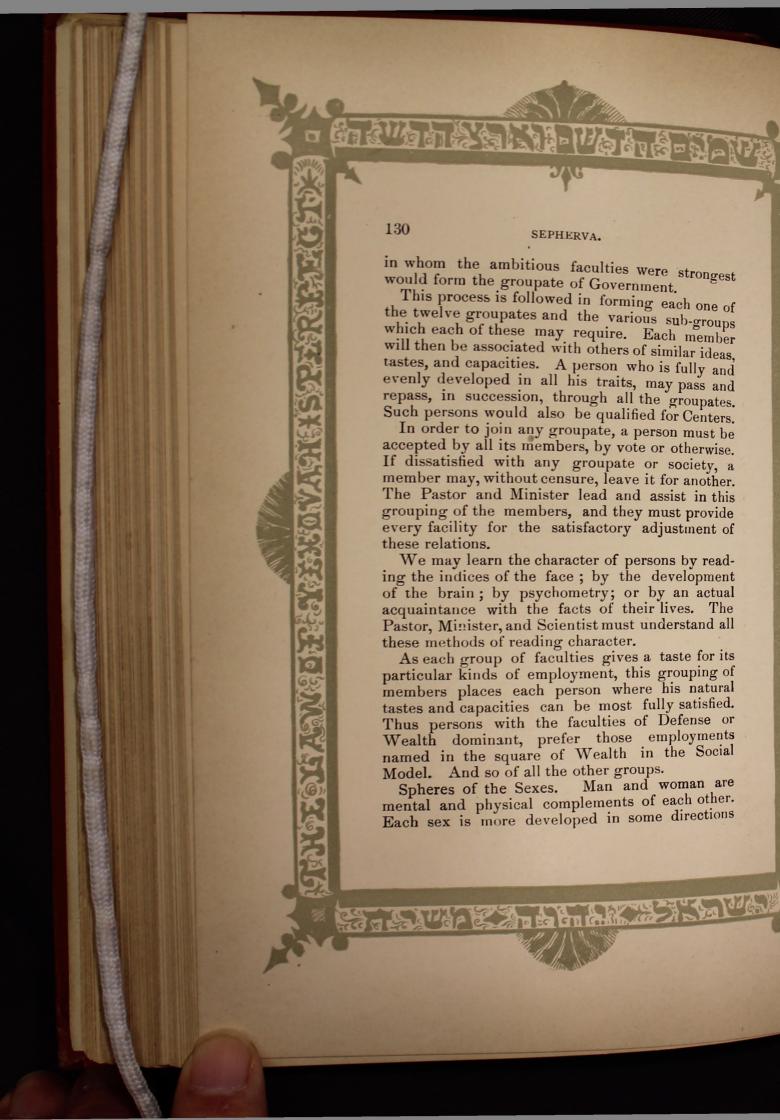
The system of combined industry in the Kingdom, opens a thousand new channels for the highest ambition, in the fields of science, labor, culture and religion. And, unlike the grovelling lust for wealth, these higher channels lead only to the welfare of humanity.

In every Band, through all the five Orders, there is a department of enterprises, of displays, and of awards, so that every person is sure to receive, not only assistance in his undertakings, but the fullest measure of reward and praise for whatever good and great thing he may achieve.

Every person has a natural right to associate with others who are attractive and congenial.

This right must be gratified by arranging the members of each society into twelve groupates, according to their characters.

Members in whose characters the reflective faculties are dominant would unite to form the groupate of Science; those who have the faculties of religion as leading elements of their characters would form the groupate of Religion; and those



than in others, but neither can claim superiority as a whole. They possess equal quantities of power; but it differs in kind.

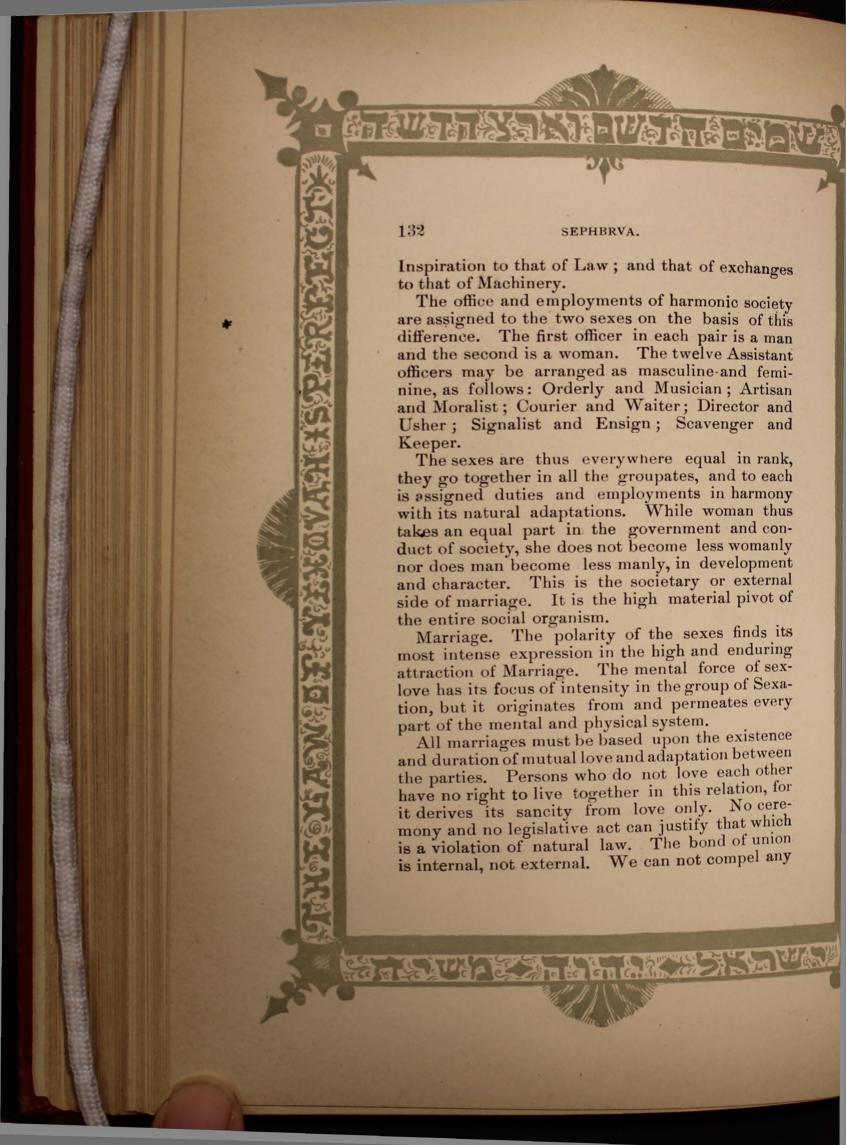
The physical differences of sex must produce mental differences, because the brain and body are definitely related in action and sympathy. So long as woman must fill the offices of maternity, so long must her nutritive organs predominate over the nervous and muscular. The effect on her brain would be that she would be ruled more by her affections and emotions, and less by ideas and material influences.

In the table of faculties, the first one given in each trinity dominates in the character of man, and the second one in the character of woman. Man is positive, woman is receptive. In general, man is the more vigorous, muscular, hardy, bold, cool, and scientific. Woman is the more sensitive, yielding, gentle, loving, ardent, and intuitive.

In woman, the nerve-currents from the body to the brain first flow outward on the mental organs which are feminine. In man they first flow outward on the mental organs which are masculine. Thus in examining a truth, man looks at it first through his Reason; while woman gets her first idea of it through her Intuition.

These natural differences of the two sexes adapt them to different spheres of intellectual, social, and industrial activity. Their spheres, like their characters, are complements.

The offices and labors of society are all dual, as shown in the Model of Society. Each has its masculine and its feminine side. Thus the department and labors of Illustration are feminine complements to those of Building. So is that of



one to love another; but we can repress its expression. If persons make mistakes in choosing their mates, they should be allowed every opportunity to rectify their mistakes, and form true unions.

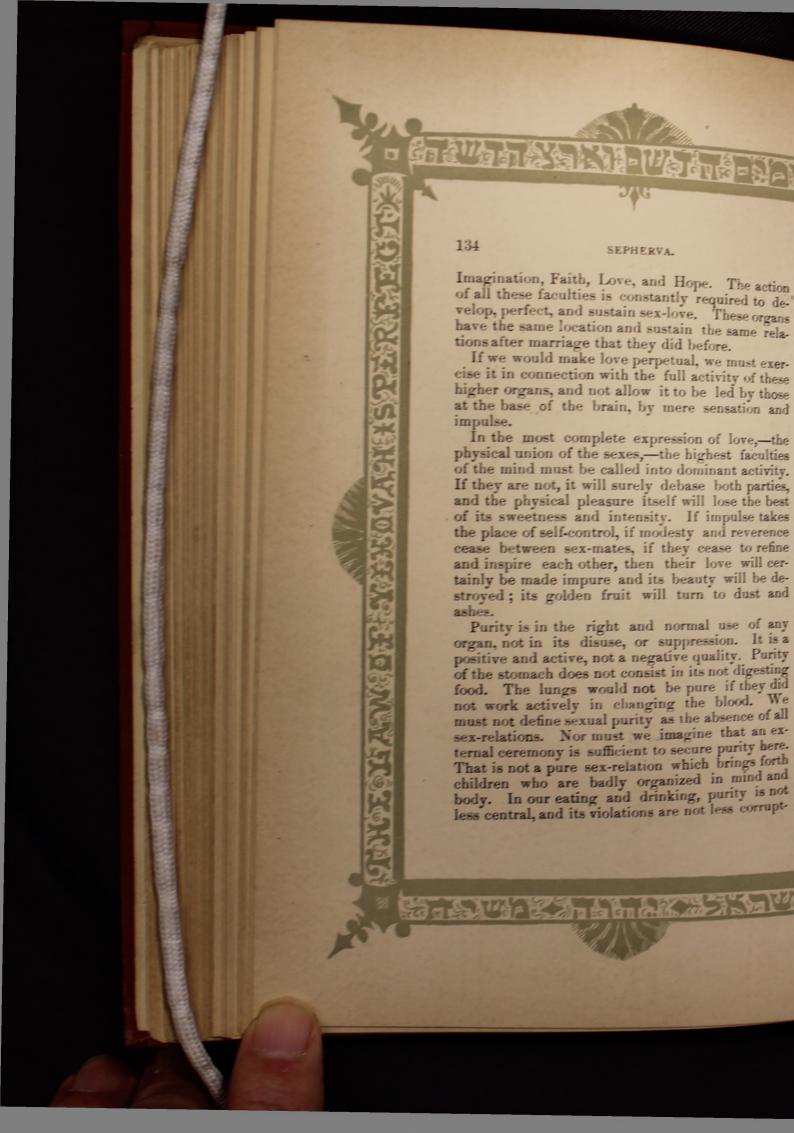
Two persons who are united through Sex-love should also have their other faculties developed in harmony with each other. There should exist between sex-mates a sympathy of ideas, tastes, and aspirations; and this sympathy may result from either similarities or complements of organization.

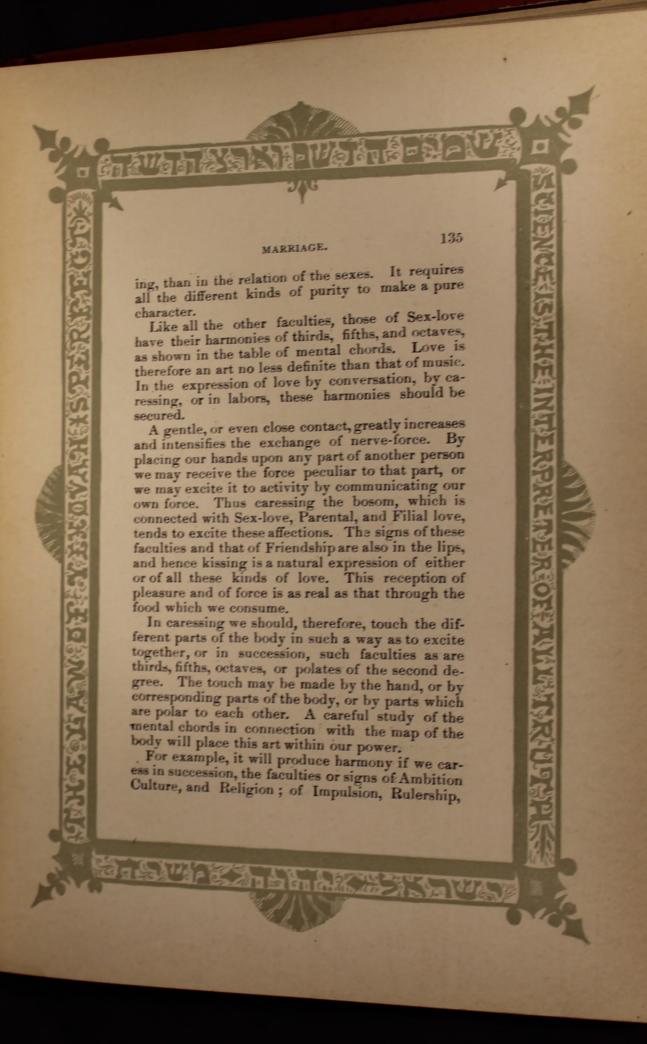
If a person have an organ somewhat deficient, he may make up or neutralize the deficiency by uniting with a mate who has the organ better developed. But persons of widely contrasted characters should not unite, for they would not see things in a similar light, and could not work together in that close sympathy demanded by this kind of love.

The same qualities which make a man and a woman adapted to love each other, also best adapt them to work together in the offices of society. Hence in a complete state of harmonism the two officers or workers of each pair are husband and wife.

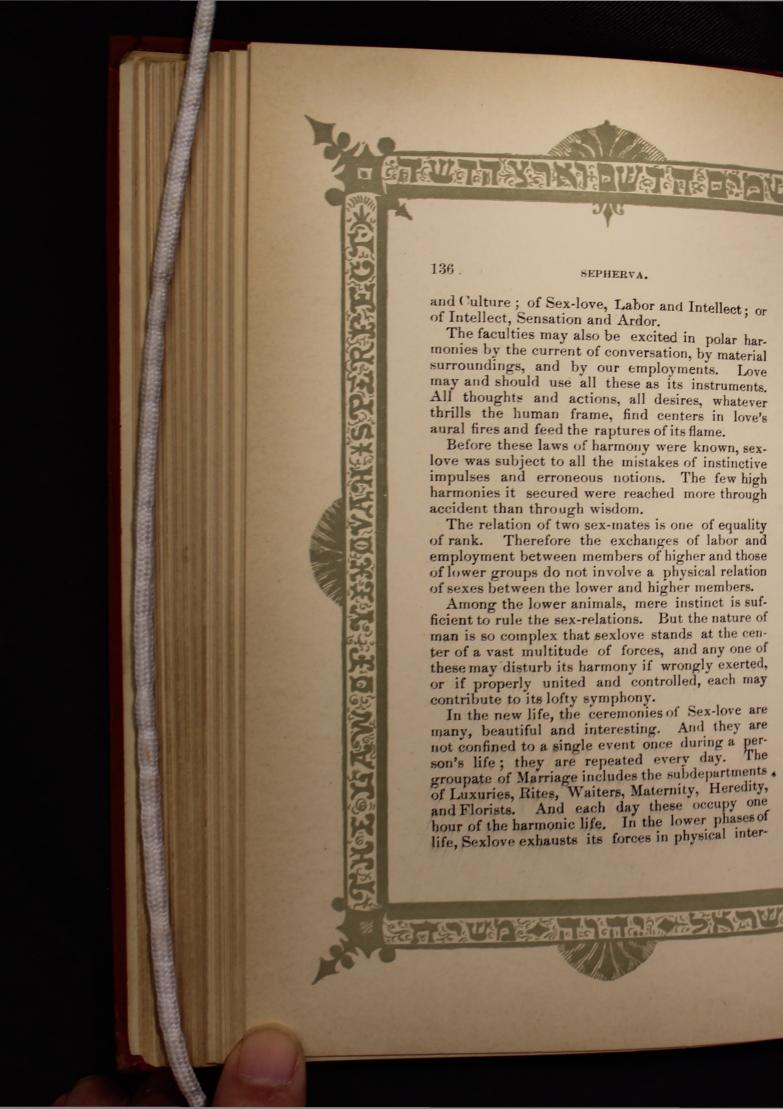
The permanence of sex-love must be secured by carefully teaching youth, of either sex, the physical and mental laws of sex-harmony; by giving them opportunity to make an intelligent choice of mates; and by surrounding them after marriage with conditions which are favorable to its perpetuity and perfection. The Ritualist and Matron are the leaders in securing these conditions, in each society.

The group of sex-love, or Sexation, is surrounded by the faculties of Integrity, Self-control,





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course. In the new life it becomes the high and inspiring center of a thousand new relations of harmony.

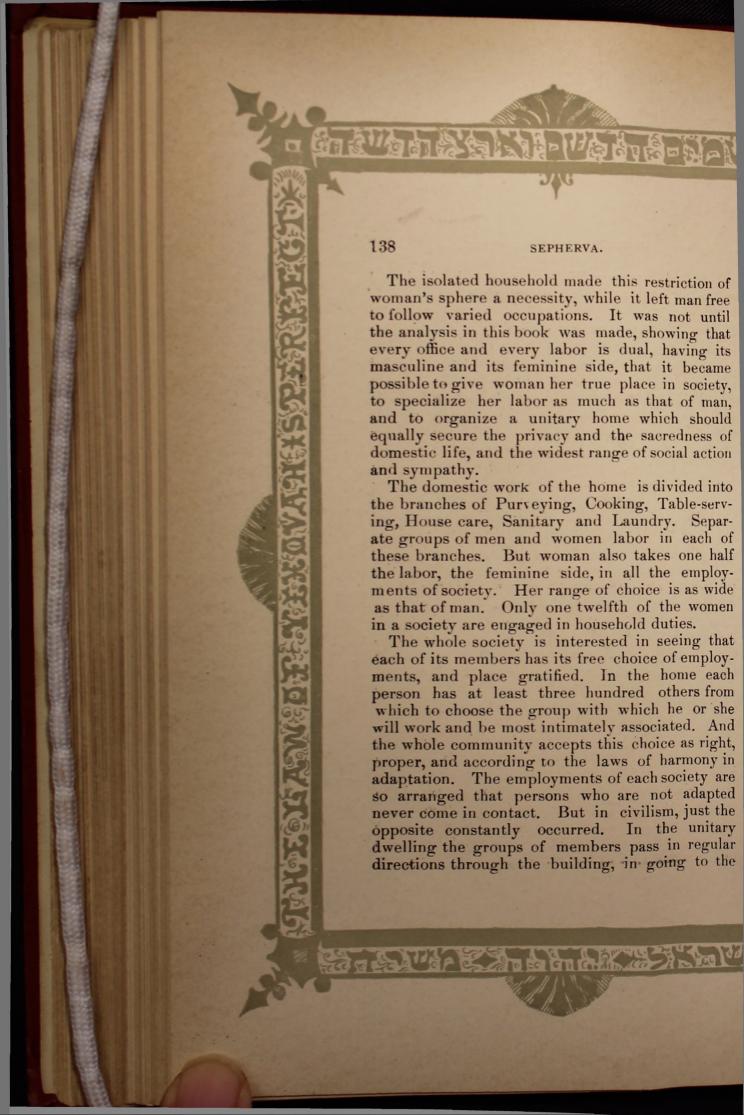
Conditions of Heredity.—Society must give to all prospective parents the best conditions of heredity, so that the forming structure of the child shall be perfect, mentally and physically. Private effort can never secure and maintain these conditions. In every child, society has rights no less than the parents. But the two claims can never be in conflict. The child is to be under the direct influence of its parents for perhaps twenty years, but it is to be an active member of society more than three times as long. Whatever tends to develop the individual character into symmetry, that also tends, most directly, to qualify the person to fill his place in society with honor.

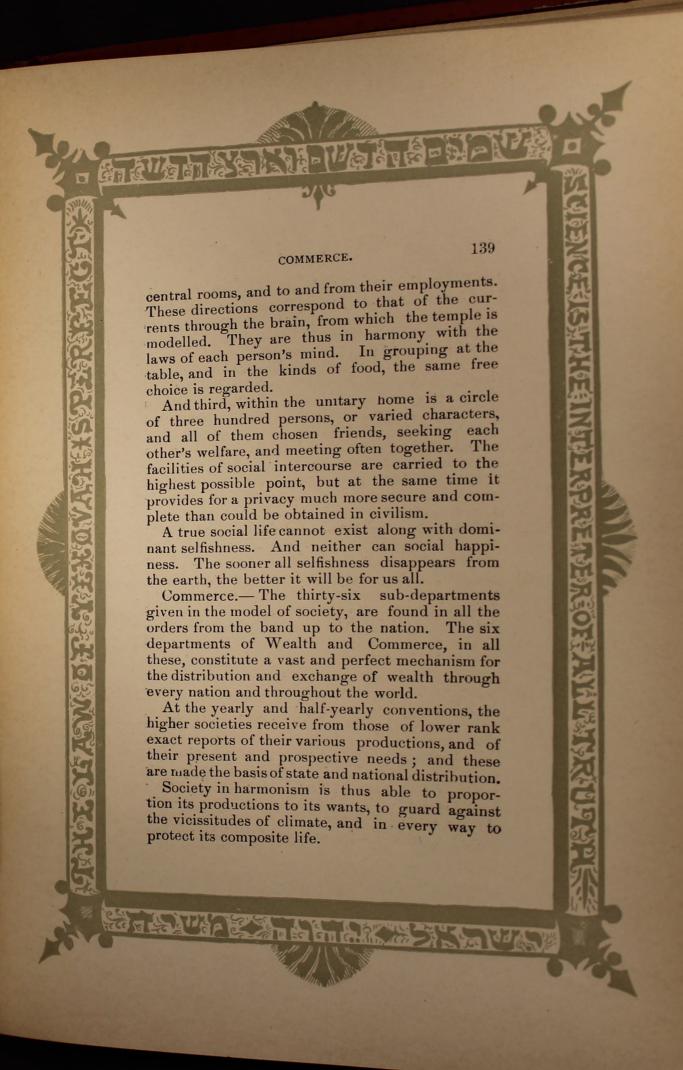
The laws of Biology teach us what are the conditions and influences which mould the char-

acter of children previous to birth.

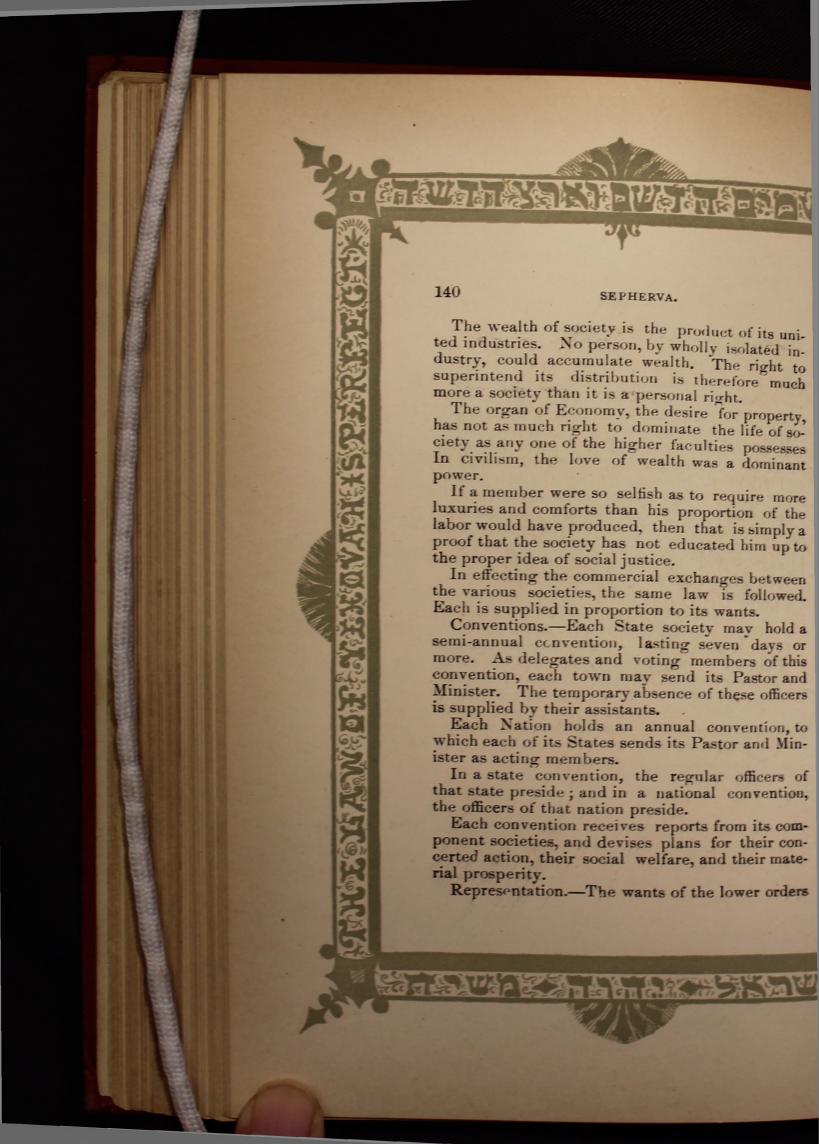
It is comparatively an easy task to train children into virtuous men and women, if their original organization of brain and body has been made such as these good prenatal conditions will secure. Society has a right to protect itself by insisting that prospective parents shall avail themselves of these conditions.

Home Work.—The division of human labor into classes or separate trades and pursuits has lifted man from barbarism to civilization. But this division of labor affected the pursuits of the male sex chiefly. From the most primitive times woman remained merely a housekeeper, and her advance depended upon the incidental influence of her connection with man.





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are answered by the higher, through like parts of each. Thus, if a want in regard to food arises in the Home groupate of some town and cannot be answered there, it would be represented in, and answered by the Home groupate of its ruling County. Or, if necessary, it would be carried up to the corresponding groupates in the still higher orders. These wants may be made known through any of the ordinary channels of communication, by messages or by special delegates. All the interests, employments, and professions of society are organized, secured and represented in the twelve groupates, with invariable certainty and equality.

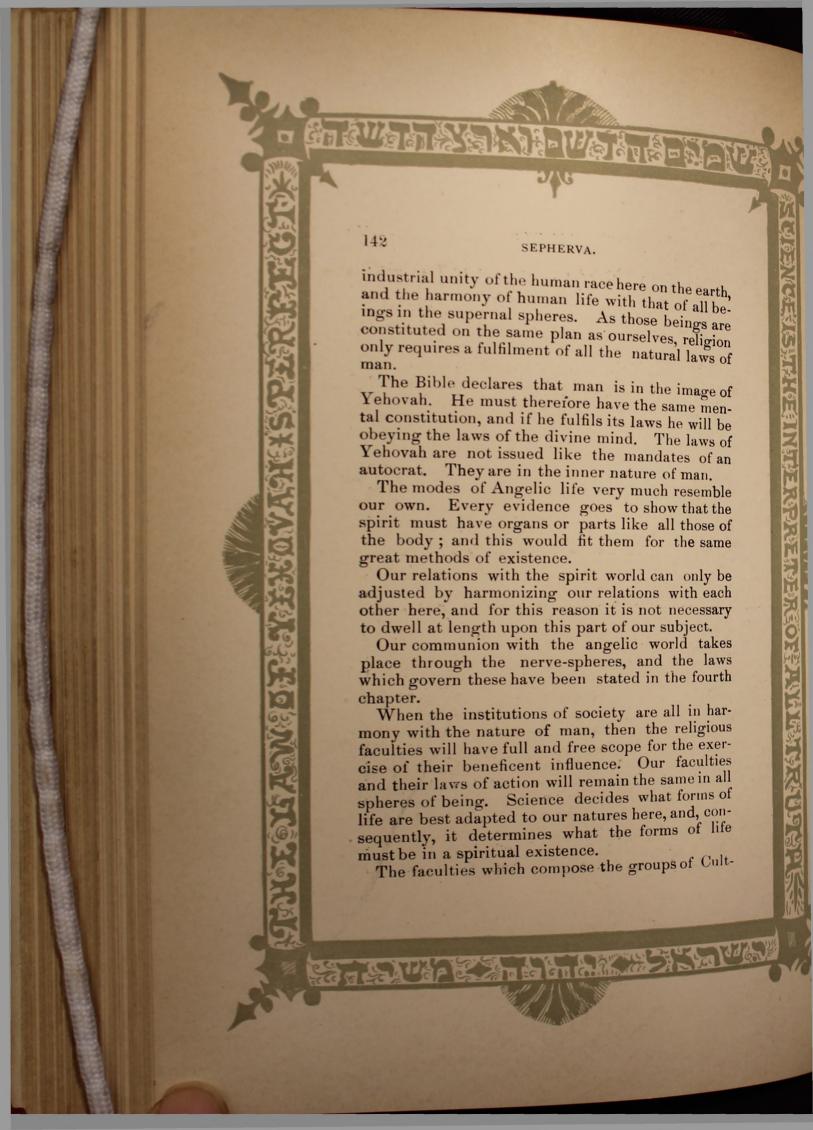
Religion. The faculties of man are exactly adapted to the reception and practical realization of all religious truth. The group of religious organs forms the key-stone in the great mental arch. Their action is supported by that of all the rest,

below and around them.

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Under the Polar law of Responses in the fifth chapter, it was shown that the feelings can not act without using the intellect. We would not know a friend from an enemy if we had no intellectual faculties of Form and Memory. The religious faculties are completely subject to this law. If a truth is addressed to the religious faculties, the very constitution of our minds compels us to use Reason and other intellectual faculties in deciding what the truth means, and upon what proofs it rests. But Reason acts by the methods of science and therefore the methods and tests of science legitimately apply to all religious truth.

Religion aims at the symmetrical development of every person, at the intellectual, the social and



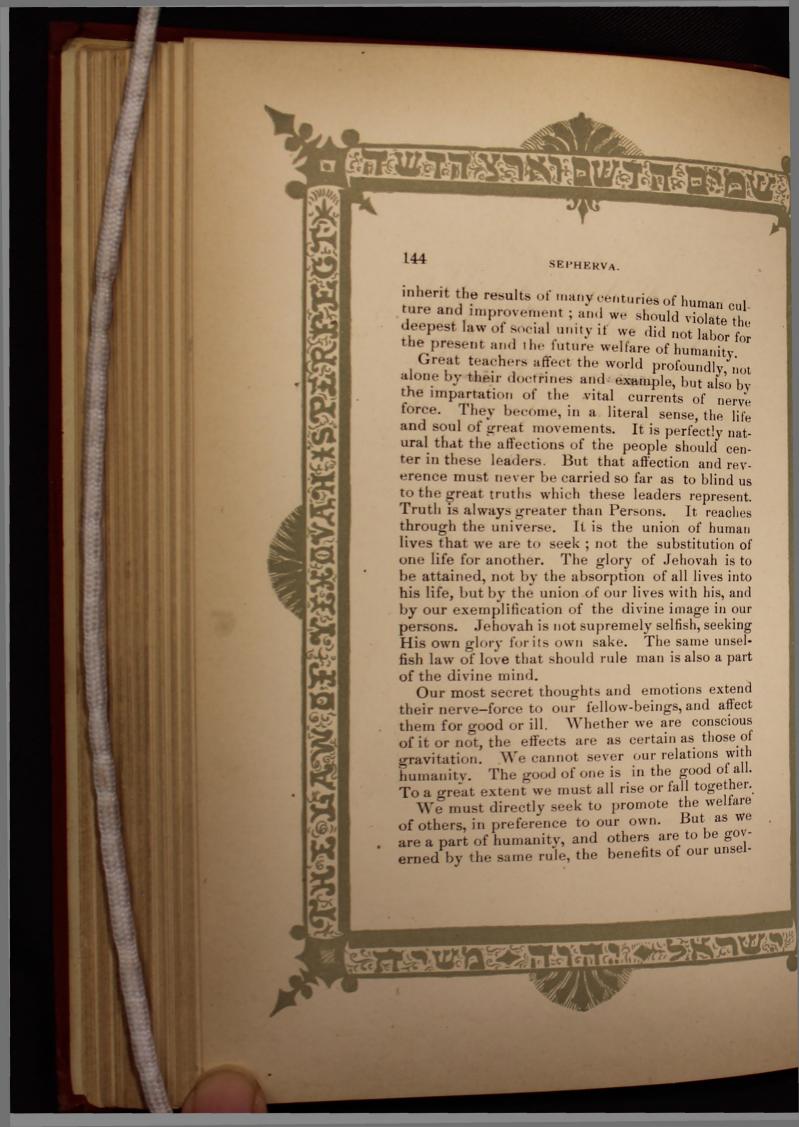
ture, religion, sexation, and parention have a most important law of social action. In the true and natural action of these organs, their nerve force flows out from one person to another as its object, and is then answered by a returning current from the latter person. Thus, when I exercise my Friendship, the current flows from this organ to my friend, and from his organ of Friendship a returning current flows to me. On the other hand, only four organs, and these are all low ones, have self as the first object upon which their actions terminate. Our high and true life must flow through that of others. We can maintain it only by perpetual interchange. We must look out and not in. The members of a harmonic society must be as vitally related to each other as are the parts of our physical organism.

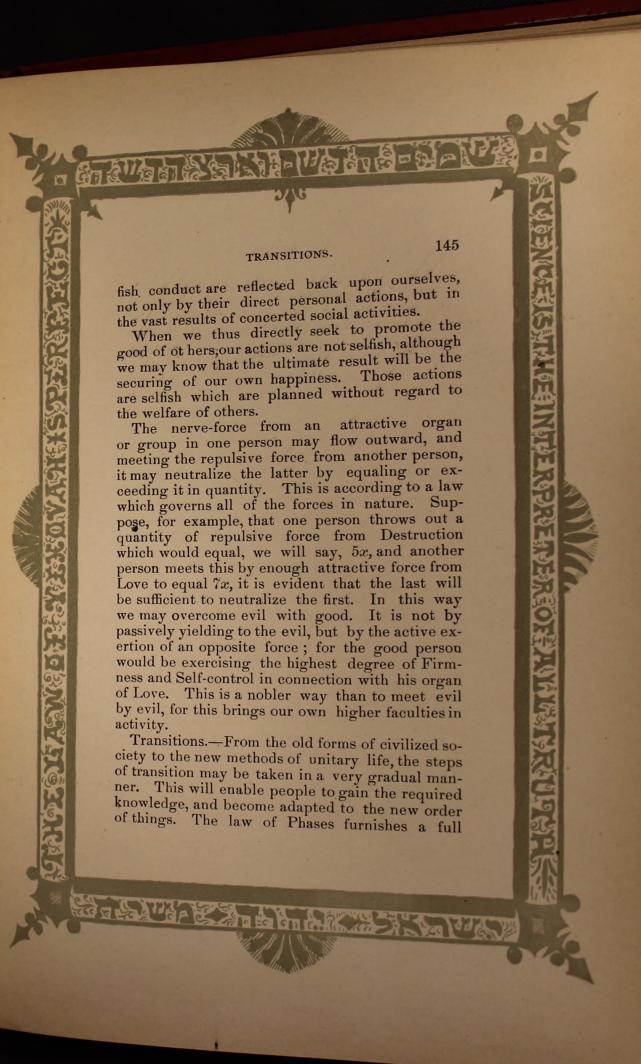
If we are selfish and seek to draw everything to ourselves, we must of necessity contract our minds and our pleasures. Selfishness defeats itself. Expansion of the mind means outward growth, and this law explains its method. To give is the way to live. Through the social law which we are discussing, all humanity is made one, and we receive the full benefit of its common growth and advance-

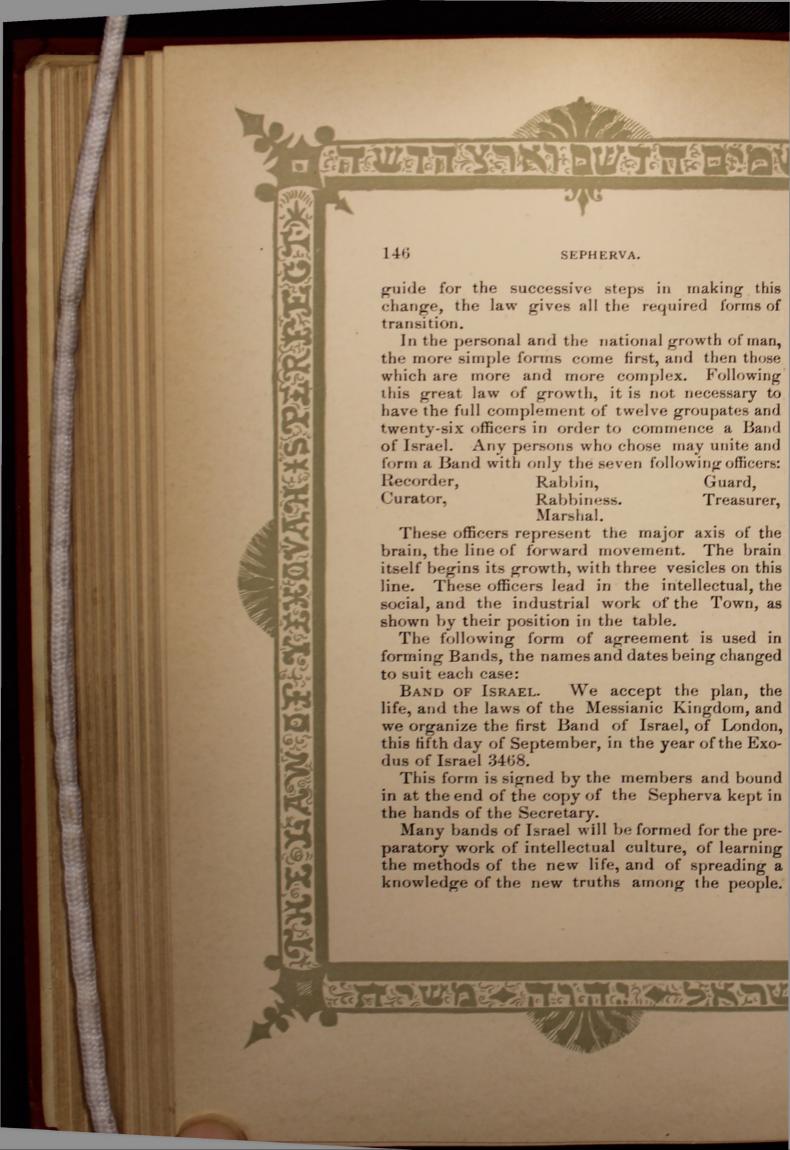
ment.

We are by nature social beings, and a universal sympathy may through this law unite all nations and communities in one vast, composite life. To effect this sublime result and give full sway to this beneficent law, the institutions and government of society must be formed in harmony with the nature of man, as planned in the Model of Society.

Humanity must be regarded as a unit, made up of the past, the present, and the future. We all







They also will form the means of concerted action in securing a practical adoption of the new methods required in social or political life.

These Bands may hold conventions and act in unity with the fully formed Bands. They may organize their children into classes and groupets so as to form a school for daily or weekly training.

Whenever three-fourths of the members desire it, a band may enter upon its phase of practical life. As fast as expedient, it will then arrange its property and its employments on the unitary

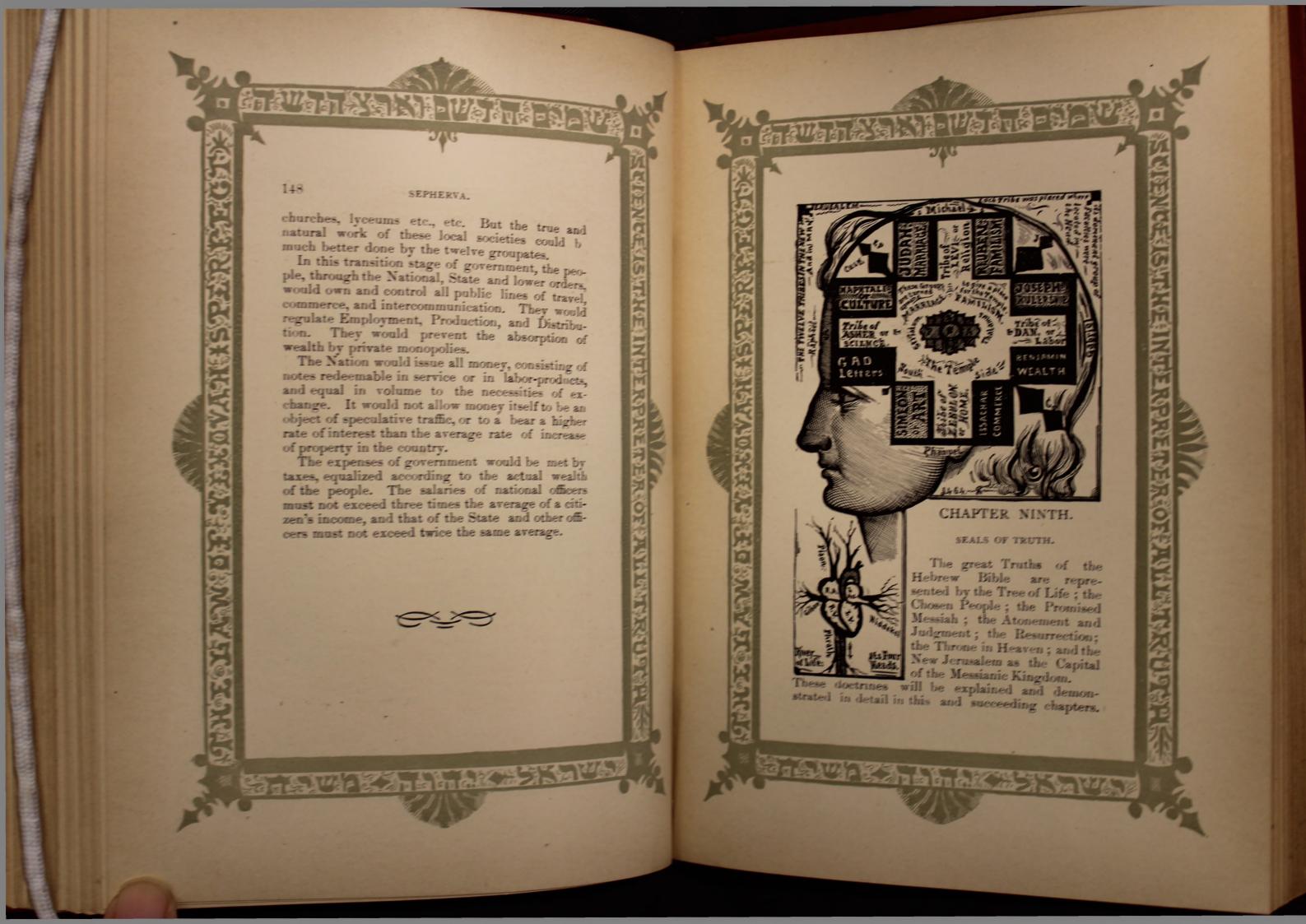
plan, as stated in this constitution.

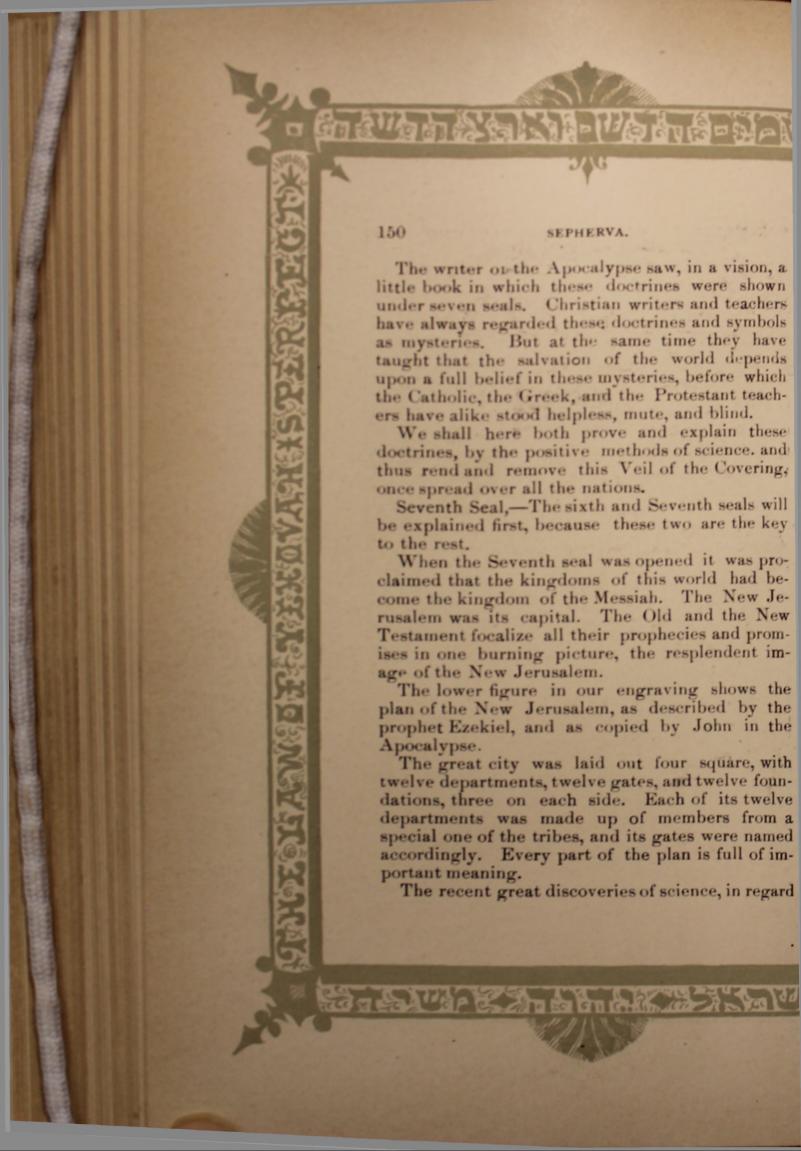
Its buildings may be formed on the fundamental plan of the temple, but have a less number of rooms and amount of detail, and thus lessen the cost of building. These Bands at first have only the three departments, but when the number of members is sufficient, they may be divided up into the twelve groupates. and each of these have its leaders and assistants. Each Town will regulate these steps of growth according to its increasing amount of wealth, of vital culture, and of numbers.

The government of each State and Nation may be organized after the general plan given in the Model, long before the majority of the people are prepared to live in the high and unselfish condition of unitary homes.

The national or the state government, with that of each County, Town, are in twelve subdivisions or groupates, with two officers and an assistant over each one. The Towns might, however, retain the simpler form of only sever officers.

Within the State there might still remain more or less of the old sectional organizations, such as





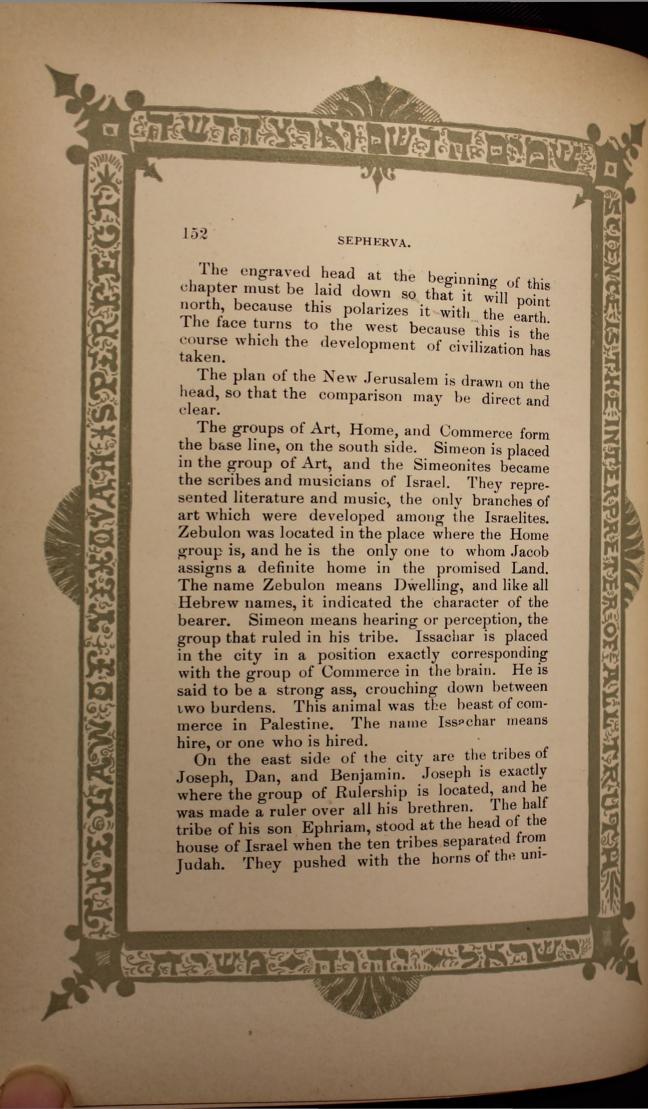
to these meanings show us that the great City was not designed merely to appeal to our imaginations by its surpassing richness and beauty. For its plan and its laws express the divine harmonies which belong to the very nature of Yehovah. The parts of the City, in their number, their arrangement, and their character, represent the attributes of the Divine mind, and the relation of these attributes to each other in his all-perfect life.

In other chapters we have seen that the laws of music are embodied in the physical structure of man and in the constitution of his mind. The parts of the City embody these same divine laws, so that here alone can be filled out the rhythm of a perfect spiritual life. The very walls and foundations of the city vibrate in responsive union with a high spiritual symphony; its very gates are hymns of exalted praise.

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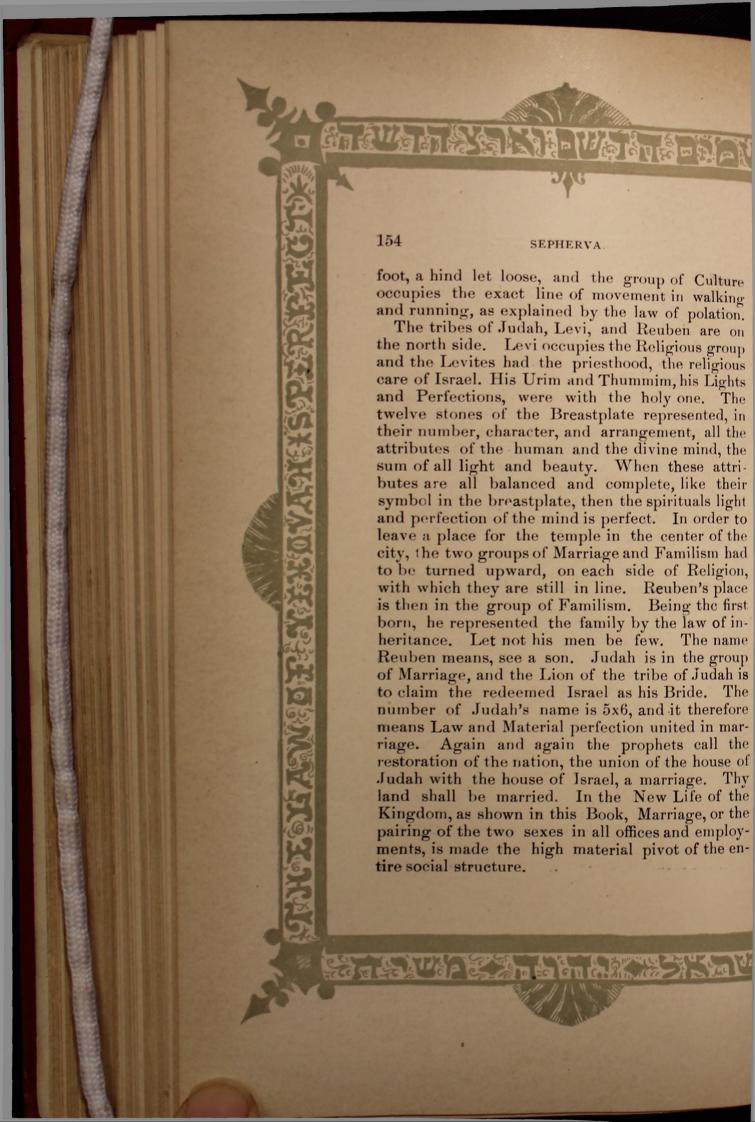
The twelve Tribes of Israel were placed in the city in such a way that they could carry on all the composite duties of society in a perfect manner.

The people of the twelve tribes differed widely from each other in character. Those of each tribe had a special one of the groups of faculties as dominant traits in their character. These differences are strongly pictured in the blessings pronounced by Jacob on his twelve sons, and they are confirmed by the whole subsequent history of the separate tribes, as given in the Bible and by both Jewish and Christian historians. These characteristic traits are presented here in a table for convenient reference. The names of the tribes are marked in their appropriate groups in the Archetype of Society.



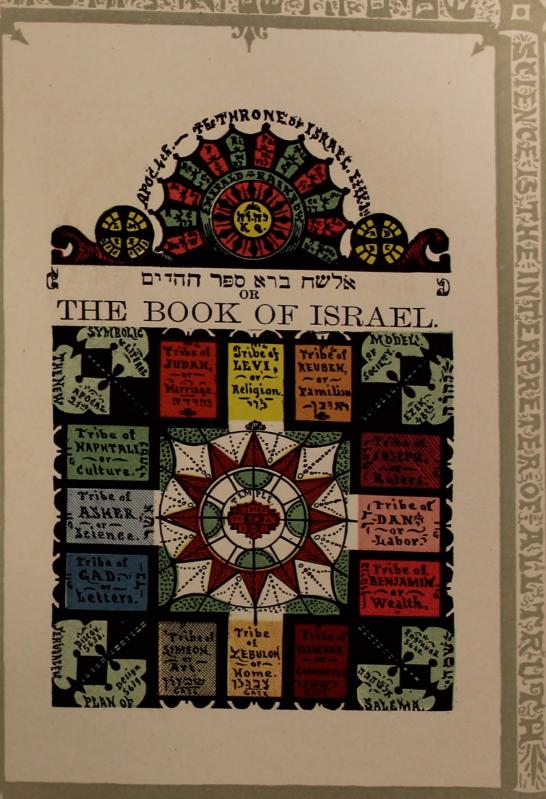
corn. Dan is in the group of Labor, in which Justice is the leading masculine faculty. Dan means a judge, and it is said that Dan shall judge his people. Labor shall judge the world; it is a serpent by the path, it secretly strikes at the rulers, and they will fall backward out of power. Then shall follow the salvation of Yehovah, says the patriarch. Benjamin is placed where the group of Wealth is, in which are the defensive and acquiring faculties, and of Benjamin it is said that he shall raven as a wolf; in the morning he shall devour the prey and at night he shall divide the spoil. They were the most warlike of all the tribes.

The west side of the city contains Gad, Asher, and Naphtali. Gad is in the group of Letters or philosophy, of central truths, and he is said to be seated in a portion with the lawgivers. His group is the middle one of Intellect, the faculties which deal with laws. Asher is in the group of Science, and the Asherites, mixing with the Phenicians, became the most scientific of all the tribes. From them came the builders of Solomon's Temple. Asher shall have shoes of iron and brass, he shall dip his foot in oil, and as his days are, so shall his strength be. This prophecy has a most striking fulfilment in the modern triumphs of science. Its iron railways and brass-fitted machines of locomotion, are the shoes used in its swift lines of travel, and these must be constantly dipped in oil. Through these he brings royal dainties from foreign lands and makes them common in every Naphtali is in the group of Culture, household. and his goodly words and bland manners come from the faculties of this group. He is swift of



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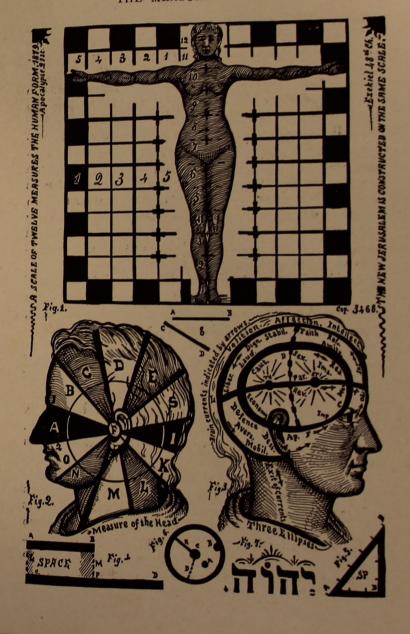
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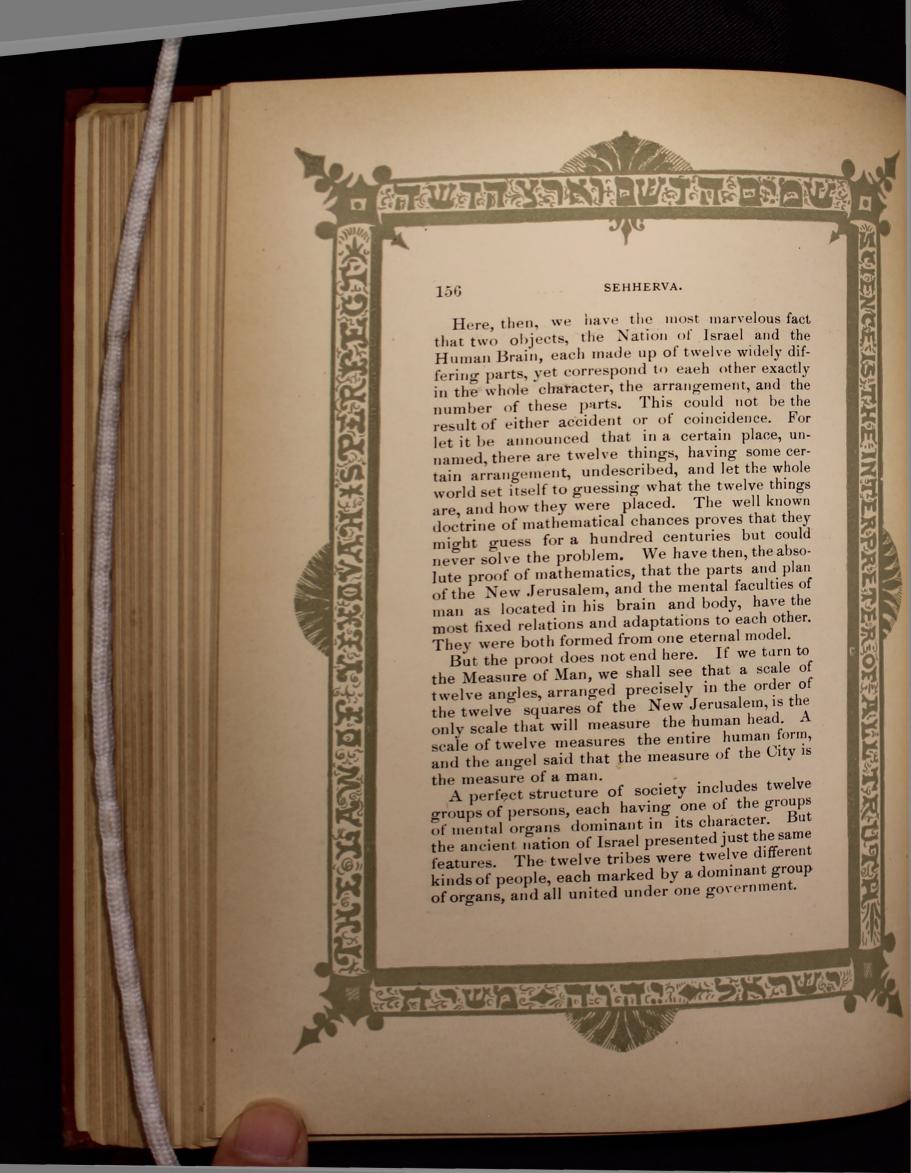
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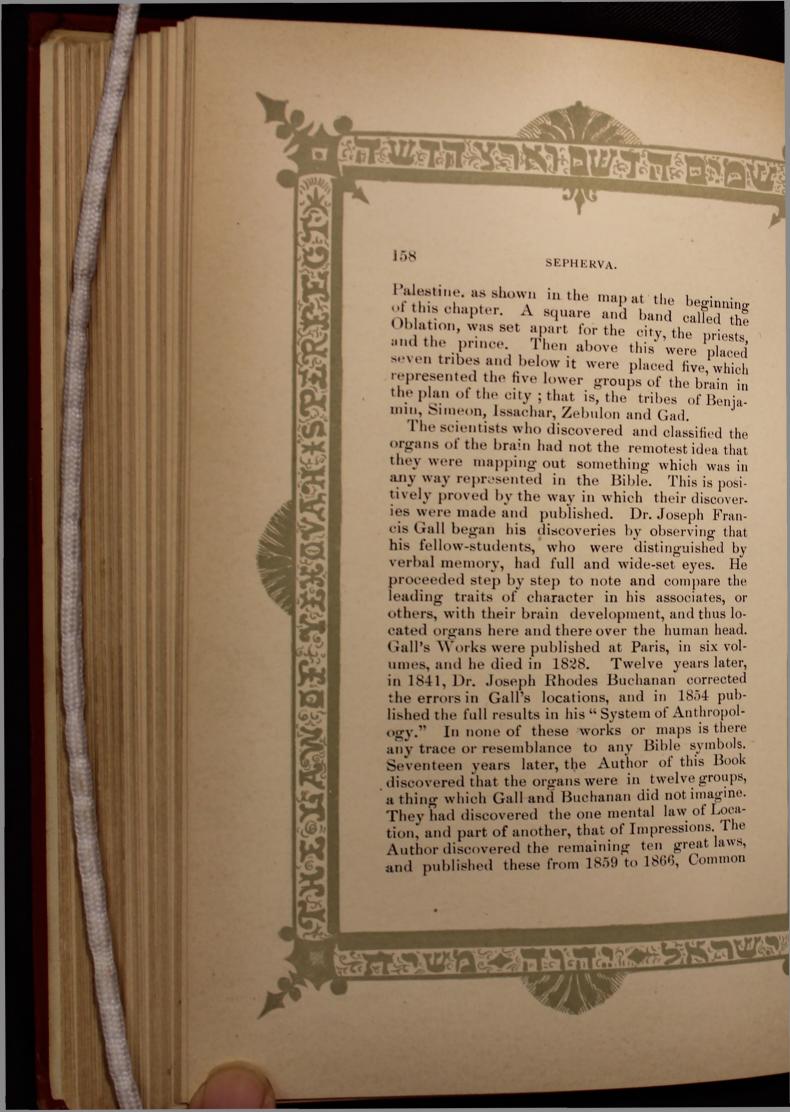
Israel was therefore a true type of the final organization of human society. For this reason they were the Chosen People. But they had not discovered the laws of social harmony, and they never carried these laws into practical life. And because they were such a type, their record stands as the central fact in the world's history.

There is only one possible explanation of the facts in this case. Yehovah knew how the twelve groups of faculties are located in the human brain, for man is in his image. He selected Jacob, controlled the forming character of his twelve sons, so that each one had a different set of faculties dominant, and would transmit these characteristics

to his descendants.

Yehovah also directed that the camp of the Israelites in the wilderness; the twelve stones in the High Priest's breastplate; and the twelve oxen under the brazen sea in Solomon's temple, should be arranged like the groups in the brain, and like the parts of the city. Teaching the same thing through many symbols during their national history, he at length gave to Ezekiel and to John the visions of the New Jerusalem, as a sublime type of the everlasting kingdom to be established, and as the actual plan and model to be copied in building all the cities of the new and redeemed earth. The city was both a symbol and a reality.

Jehovah knew that of the twelve groups of the brain, five point downward, and seven point upward. They are not divided equally. That he knew this, is proved by this fact: In ancient Palestine, the twelve tribes were scattered about in irregular patches. But in the vision of Ezekiel, he saw them arranged in regular bands across





Era. But the Author's maps had been published nineteen years before he saw that the twelve groups had the same character and arrangement as

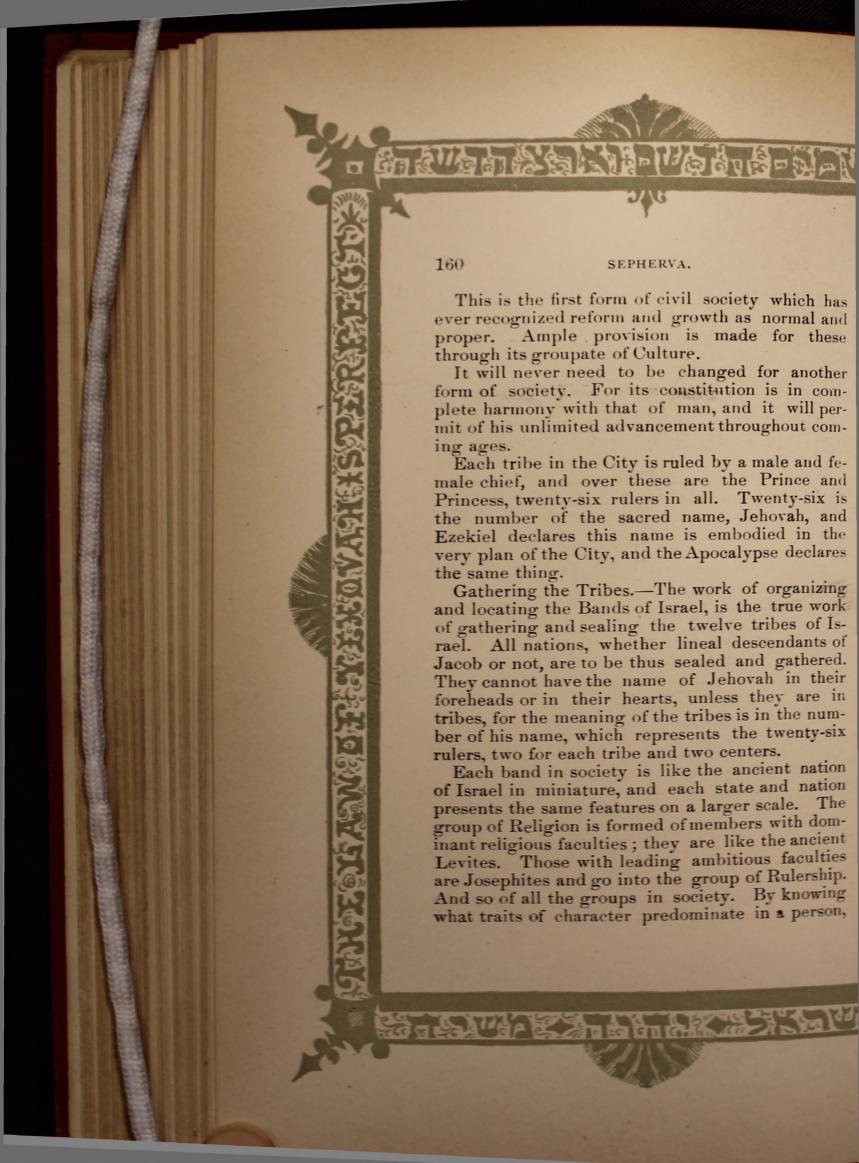
the parts of the New Jerusalem.

All these facts prove that there was no intention on the part of these scientists to plan out something which should fit and explain the Bible. Any mistake in locating the groups would have spoiled the whole arrangement and resemblance. And if the Author had not discovered the true structure of a perfect Society, based upon the wants and faculties of man, then there would have been no practical value in the resemblance. The traits of character which marked each tribe of Israel were well known to Bible students. But none of these students suspected that if we put all these traits together they will exactly cover the twelve groups of faculties which make up the human mind.

The New Jerusalem was planned after the noblest model that the human mind can conceive. For man is the image of the Divine Being, and every one of his faculties and the proportion and relations of these, are faithful copies of the divine

original.

The Messianic Kingdom is both material and spiritual. Everyone of its departments has its direct source and counterpart in some department of man's spiritual nature. Thus the department of Science, has its source in the Reasoning faculties; that of Religion has its counterpart in the religious organs, and so of every part of the social structure, its foundation is in the spiritual nature of man. This was never before true of any system of government or national life.



we can tell at once to what groupate or tribe that

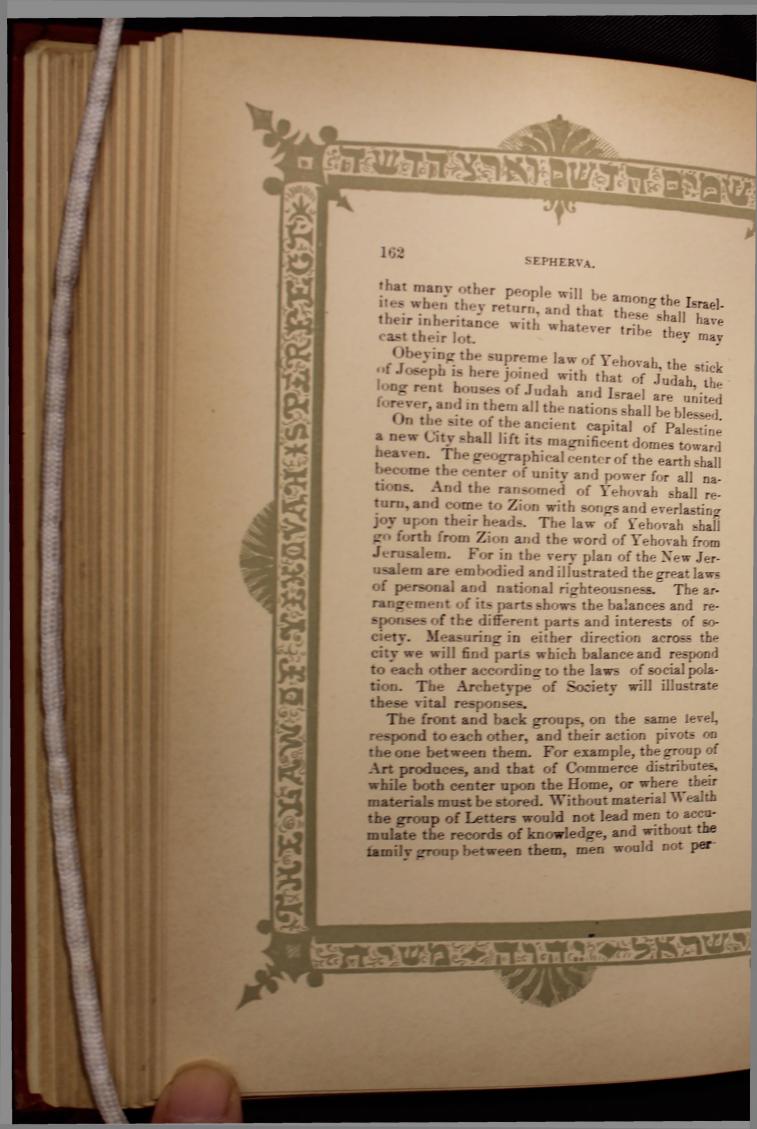
when this work of grouping is established throughout the world, then all the lost tribes of Israel will be gathered and each person will be placed in his own tribe. We do not need to trace out his lineage, a thing which would be impossible now, for the genealogies are long since lost. We are guided by definite scientific knowledge, and require no miracle to direct us in the work of selection.

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The tribe of Judah, mixed with that of Benjamin and part of Levi, are with us to-day as a distinct and easily recognized people, the modern Jews. The other ten tribes never returned after the Captivity, 720 B. C. They lost their distinctive name, but their descendants must still exist as a numerous people among the nations of the earth. There is a fairly proved chain of historical evidence which shows that the modern Anglo-Saxons are these ten tribes. But it is not necessary to prove this in order to fulfil the prophecies. We must not only be able to recognize the ten tribes as a whole but also exactly what tribe each person be longs to, in order to restore them to their true places. The work of identification would be useless without this definite knowledge.

The prophets declare that the Messianic Kingdom shall extend over the whole earth, and include all nations, with Palestine as their center. The great mass of the Jews will return to the land of their fathers. But many will remain in the countries where they are now, but the societies in which they live will be bands of Israel, with all the twelve tribes represented. The prophets say



petuate these records in families and communities. The group of Science discovers and invents, and then that of Labor applies these inventions in practical life. Both these have a high center in the vitally creative forces of marriage. The group of Culture leads us to improve and perfect our character, and then the group of Rulership impels us to take that rank in society which our culture merits. Both groups center upon Religion, for this includes in a comprehensive way, our relations to humanity and to the divine life.

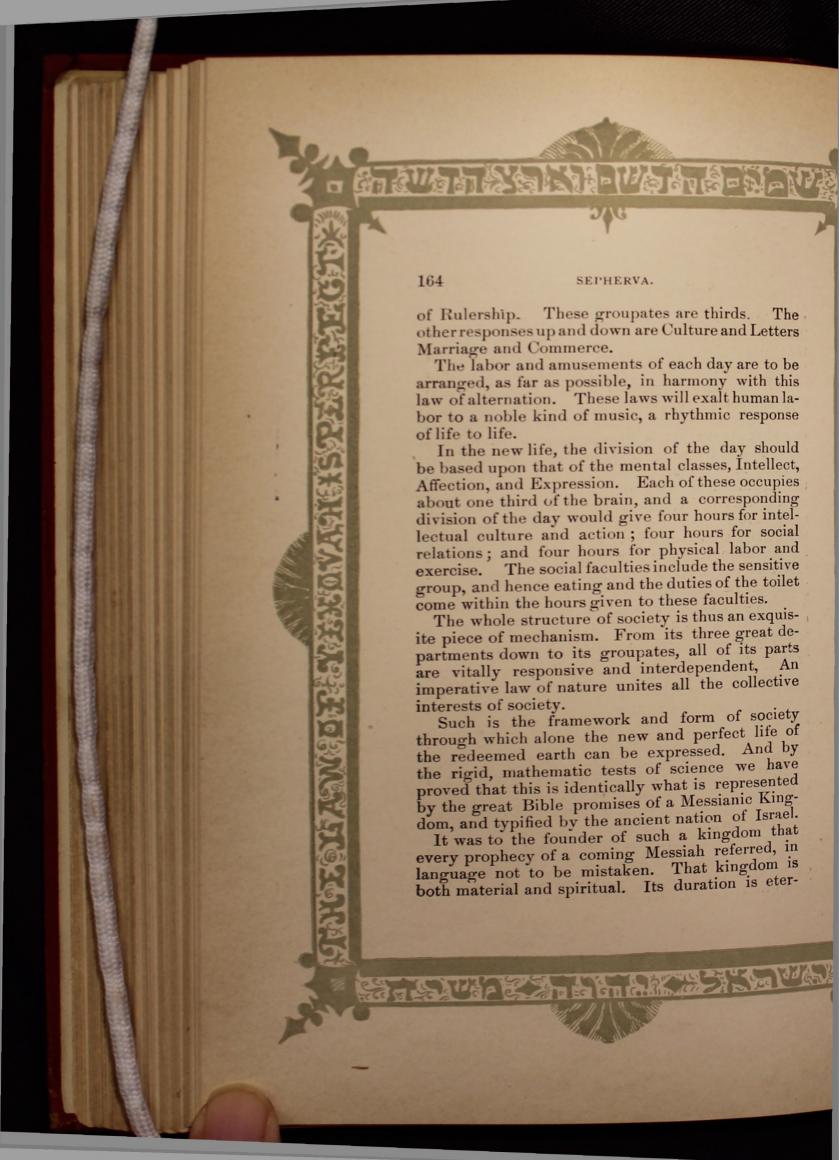
In the New Life, the members of society make temporary exchanges of employment or of position with those who are their thirds, fifths, or octaves. For example, those in the department of Food-culture may exchange with those who are in the department of Luxuries; those in the groupate of Wealth may exchange with those in the groupate of Rulership. The different branches of labor are therefore related to each other by fixed and eternal

laws of harmony.

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Through these exchanges, the members secure a wide but systematic variety in their work and pleasures. And by thus calling all their faculties into activity, they prevent that partial development of personal character which would result from incessantly using a few faculties in one vocation. Such exchanges and harmonies were not possible in any of the societies of civilism.

The labors of society should succeed each other according to the law of mental responses. For example, the mind is rested and harmonized by passing from the work or amusements of the groupate of Art to those of Science; from that of the Family to that of Religion; from that of Wealth to that

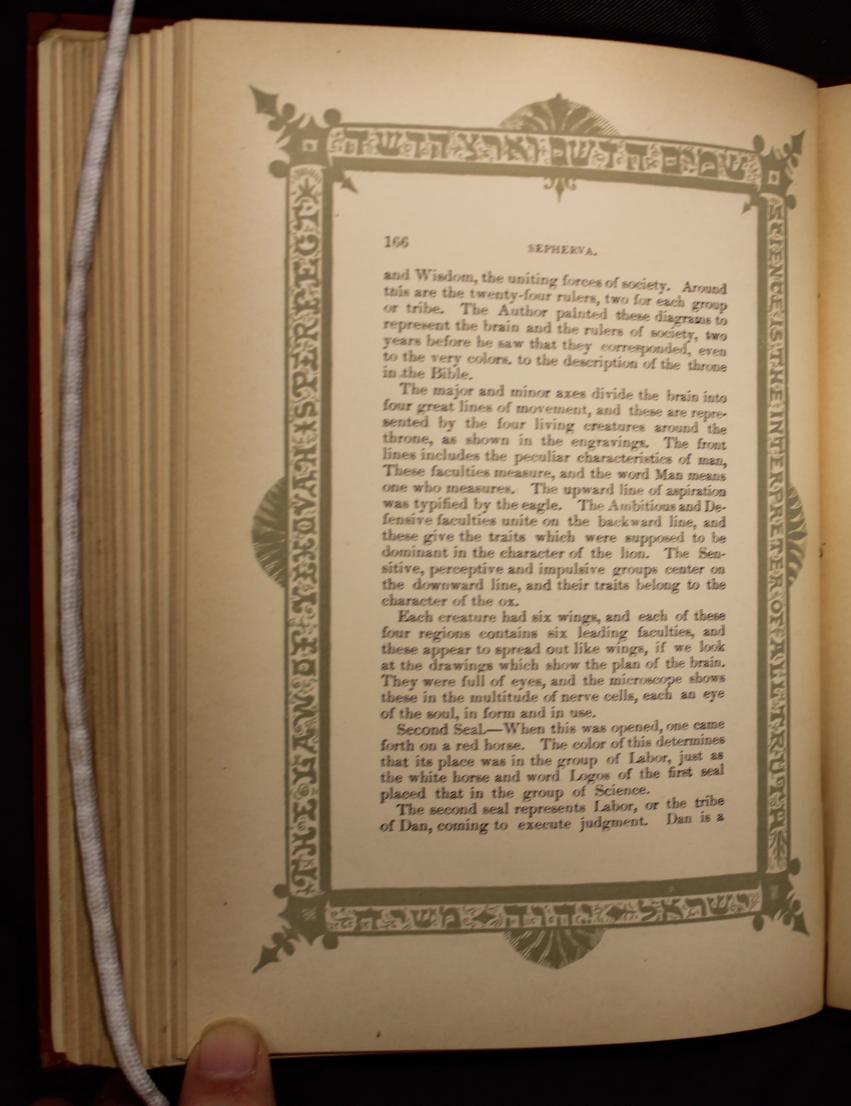


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nal, for it is based upon eternal laws. Its twelve foundations are these; Art, Letters,, Science, Culture, the Home, the Family, Marriage, Religion, Rulership, Labor, Wealth, and Commerce. The laws governing these include the whole of a perfect life, for both persons and nations. And these laws are written in the constitution of man, in his inward nature, where Jeremiah says that the New Covenant should be found written. It should not be merely upon tables of stone, like the Mosaic law. All other systems of government have been the contrivances of man, but this is cut out of the mountain without men's hands. Although God had told man so emphatically where the New Covenant would be found, yet no one seemed to believe what he said and no one searched in the constitution of man to find it, until twenty years ago, when the successful explorations described in this book were commenced.

The Hebrew prophets speak of the government in the Messianic age as a Kingdom. But it is not a kingdom in the old sense of the term. It is not maintained by arbitrary decrees. It is a perfect Republic, for all of its rulers must be elected by a free choice of its members, and it recognizes no organic laws except those written in the very nature of man, and fully demonstrated by the fixed methods of science. With this understanding, we may still speak of it as a Kingdom but the proper title of its two chief rulers is in English, the Prince and Princess.

The Throne.—Both Ezekiel and John saw the vision of a great Throne. In our engraving of this throne of Israel, the central sun shows the two central rulers. The emerald bow represents Love



serpent by the path, and in Europe and America Labor was forced to organize in secret. It bites the horses heels, and the rulers fall backward, fall out of power and place. And then shall come salvation, said the Patriarch of Israel. For then organized Industry shall supplant civilized competition, Labor shall then no more be cursed, No longer a serpent, it walks erect in wisdom,

In vain may the rulers of earth seek to avert the blow, and to perpetuate their power. A greater power than theirs has opened the seal. Justice has long slumbered, but the hand that wields the

sword is swift, mighty, and ubiquitous.

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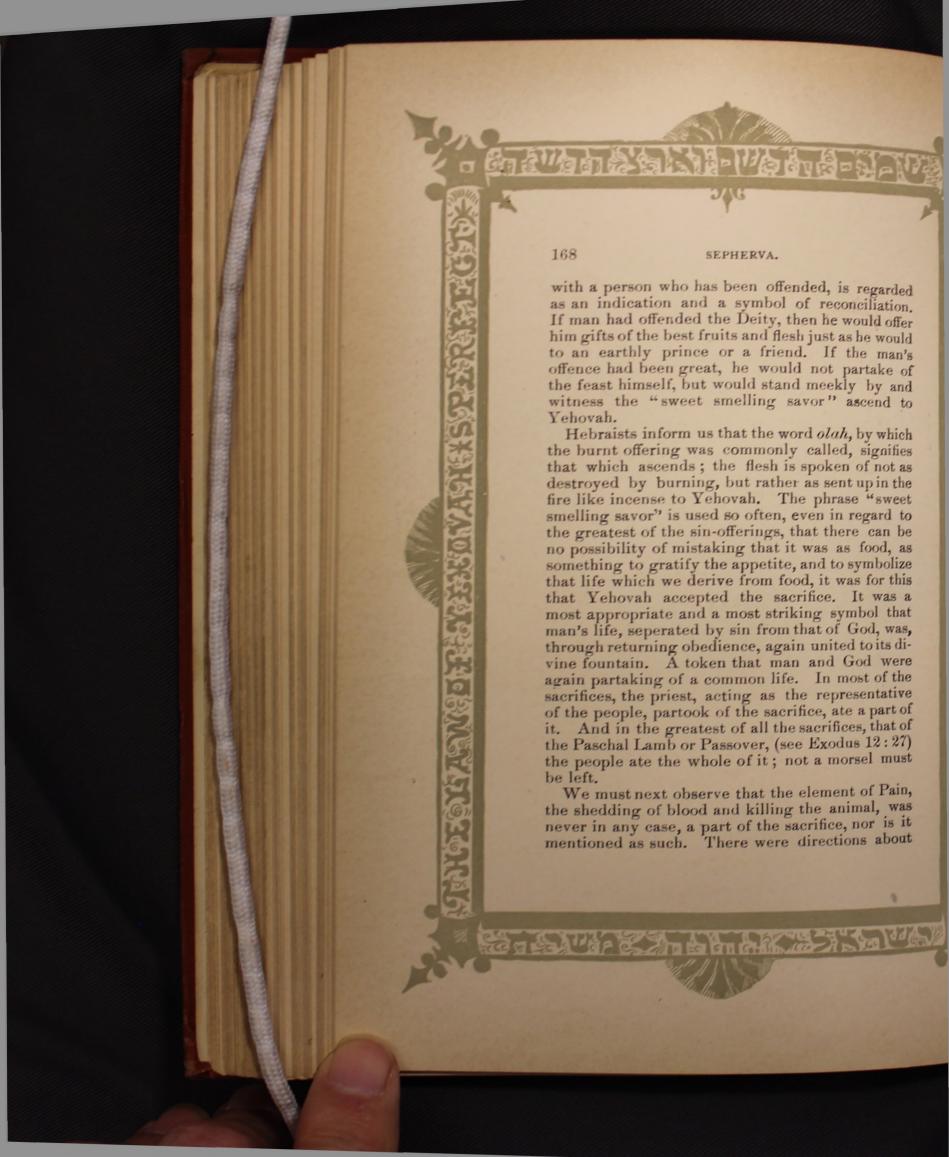
Third Seal.—This was represented by a rider on a black horse, with a pair of balances in his hand. It belonged to the group of Commerce and symbolizes the first form of the Atonement. This will lead us to consider and correct a great mistake which has been made in regard to nature of sacri-

fices, and their use among the ancients.

Nature of Sacrifices.—The Sacrifice was a feast offered by man to Yehovah. It was a feast expressing reconciliation, or goodwill, or gratitude. entire Mosaic laws on this subject, the history of ancient Israel, as well as that of all nations, prove conclusively that this was the character and the import of all the sacrifices. This will appear very clear if we briefly consider the actual facts of the case.

First then, we must note that every object offerred in sacrifice consisted of some kind of food. It must be in a condition to be eaten before it could be accepted as a sacrifice. If of flesh, it must be cooked; if of fruit, it must be ripe.

Among all eastern nations, the act of eating



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the way the animal should be killed, just as the Jews were then, and are at the present time, careful about how animals are to be killed for common food. And because the blood contains all the elements of life, all the materials out of which the living structures of the body are formed, therefore the blood was very properly used as a symbol. While it was yet warm and living, it was sprinkled upon the altar or upon the people, as a token of the interchange of life between man and Yehovah. If the blood became cold or coagulated, and thus showed any indication of death, then it could not be used. So careful was the Law to exclude the idea of death, of pain, or of punishment, from the sacrifice. These formed no part of its meaning.

The sacrifice represented a present fact, then and there accomplished. The reconciliation must take place before the sin offering could be made. It was not a prophecy of something in the future, it symbolized a fact already past. It was not a prophecy except in this sense; that in the Kingdom, man will yield a constant obedience and will enjoy an equally constant and conscious union

with the divine life.

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There have been nations so degraded as to eat human flesh as food. So, too there have been those who offered human sacrifices. But among the Israelites, this was forbidden under the most awful penalties and curses of Yehovah. And surely if this were so revolting in the symbol it could not be less shocking in the antitype. Neither Jesus nor any other man, could be offered as a sacrifice under the law. Surely the the law cannot be satisfied by violating both its letter and its spirit in the most flagrant manner.

If the law had allowed a human sacrifice, the body of Jesus must have been completely bled and then cooked, before it could be accepted. Well may our minds recoil from such a horrible picture. It is as far from the divine law as it was from the actual facts recorded in the gospel narrative. Crucifixion is a bloodless death. The nails were driven through the hands and feet at a place almost devoid of arteries and veins. Therefore the blood of Jesus was not shed on the cross. The two ounces, mixed with water, which came from his heart case, was dead blood and therefore could not be offered under the law. Christians have taught that the Paschal lamb was the chief type of Jesus, among the sacrifices. If this were true, then the people should have cooked and eaten his body.

The Apocalypse speaks of those "whose robes were made white in the blood of the Lamb". We must remember that this lamb, slain from the foundation of the world, can not be the individual man Jesus. For he was slain but once. But it does mean the lamb in man, or the spiritual side of his nature, which has always been persecuted, trampled down, and slain, by his lower nature, from the time of Abel down. Just as in Isaiah the lamb and the wolf were to dwell in harmony; but this does not mean the lamb in the one man Jesus, it means the lamb and the wolf in every individual member of the Messianic kingdom. In this sense, the passage is broad as the redeemed race of man. And it is then more than a mere figure of speech, it has more than a spiritualized meaning. For the lower faculties when they rule are nourished by blood which is actually feverish and turbulent. When the higher faculties, the spiritual side, rule

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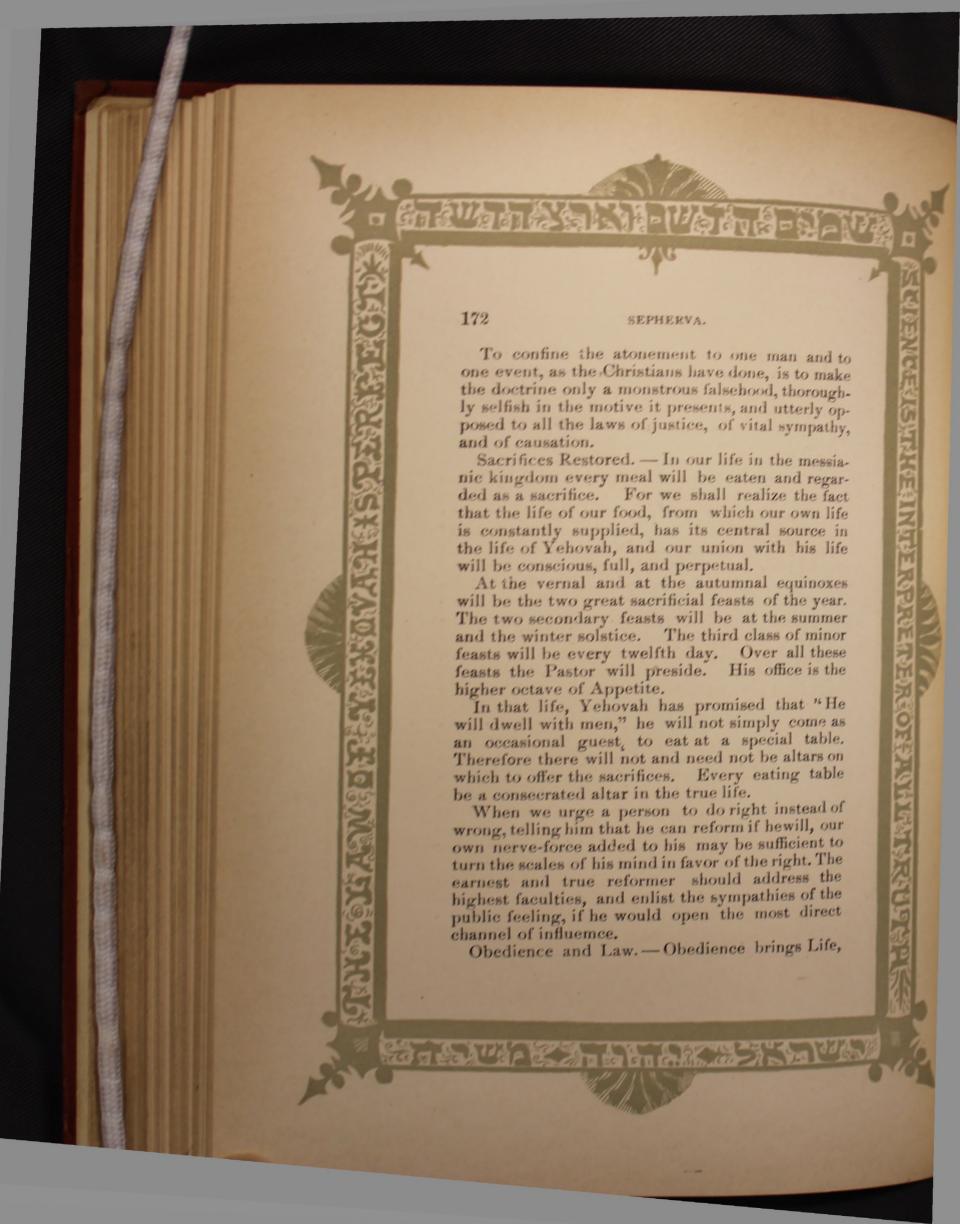
in the character, the blood that circulates in them is clear and pure, just as the radiated light from these faculties is white in color. The true doctrine thus comes directly home to the personal life and conduct of every man. It is in each of us that the blood of the lamb must purify the temple of life. The Messiah was a pre-eminent type of the Lamb, and the great leader of men in the work of overcoming the lower powers.

The Christian theory of the Atonement was based upon a total misconception of the nature of the divine laws and sacrifices. It contradicted alike the certain truths of history and of science.

The real truth of the Atonement is twelve hundred million times greater than was their misconception. For the law of the atonement is universal, uniting all men in the pulsating tides of a common spiritual life. It has been proved in the fourth chapter of this book that the currents of spiritual life constantly flow outward from every person and reach and effect other persons. In the selfish antagonism of civilized society these currents are the source of discord. But in the true life they are the source of the most intense and exalted pleasures. It is through these same currents that our lives are united with those of spiritual beings in higher realms of existence. It is impossible for us to escape from this law. Each of us gives and receives from the spiritual life of our associates. We live by perpetual interchange.

In this way the strong must help the weak, the virtuous must give moral life and power to the erring, and each man make atonement for his fellows. The good of one is through that of others.

To give is to live.



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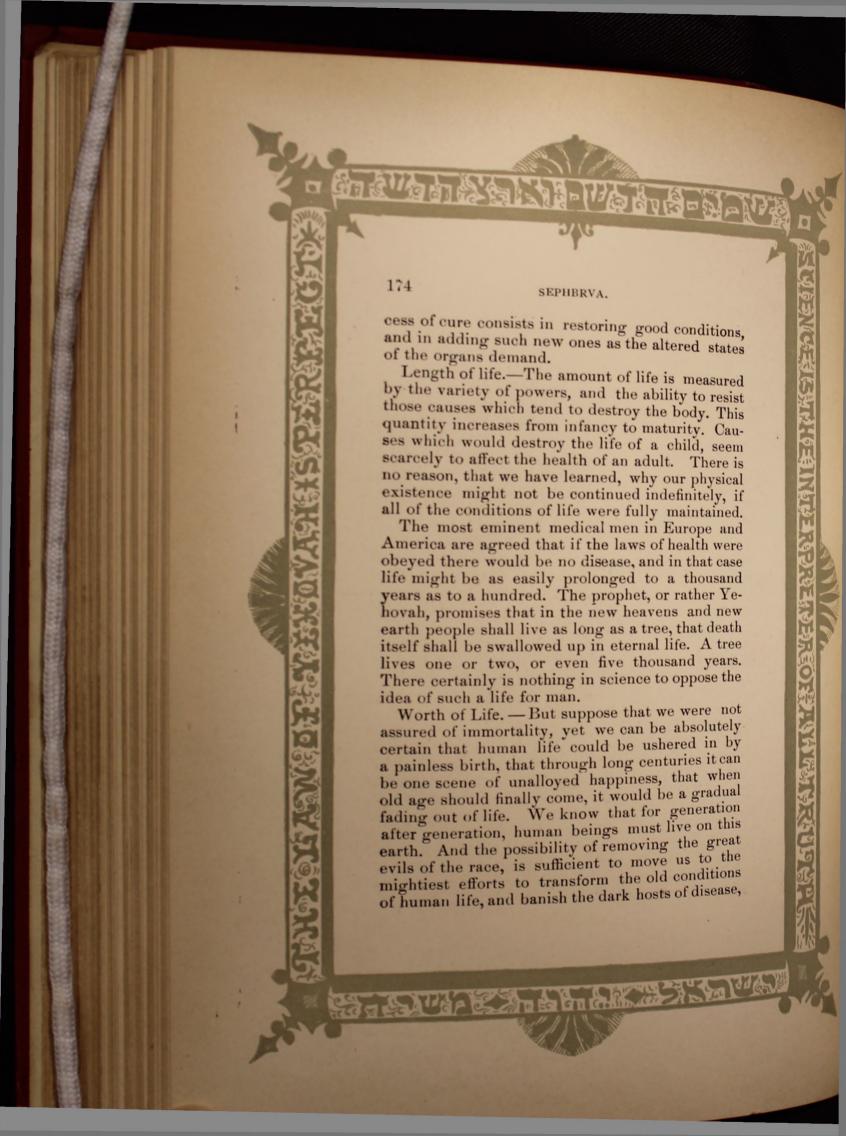
in every sphere of existence. For the human constitution, the nature of our faculties and their laws of action, remain the same whether we exist in a physical or a spiritual world. We may fail to fulfill, but we cannot break or destroy a law. Thus it is a law of circulation that the finger must receive blood through its arteries and return this toward the heart through its veins, in order to maintain its life. Now if we cut off the finger, the law can no longer be obeyed, but it remains in existence all the same, and therefore the finger loses its life. If the law were really destroyed, if it ceased to be true, then very possibly the life of the finger might continue after the violation.

The violator in no case suffers individually the entire penalty. For by the laws of the nerve force a part of the evil results are invariably communicated to others. In a true constitution of society the incentives to wrong doing will be reduced to a minimum. Each person will see clearly that to do right will most certainly and directly lead to his pleasure. Society has often been so organized that it seemed to some of its members that wrong doing was the easiest and most direct way to secure private happiness.

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The object of the physician is to cure the sick man of his disease, and not to destroy his life. And so in Messianism, the object of penal measures is social health. The motive of punishment is not vengeance, but restoration. The transgressor is still bound by social ties to the rest of society.

The same living organs, the same vital powers, are in action in states of disease as in states of health. In disease, these organs or powers have been interfered with, by bad conditions. The pro-



of social wretchedness and of national discord, from the fair face of the earth. Life may be made eminently worth living.

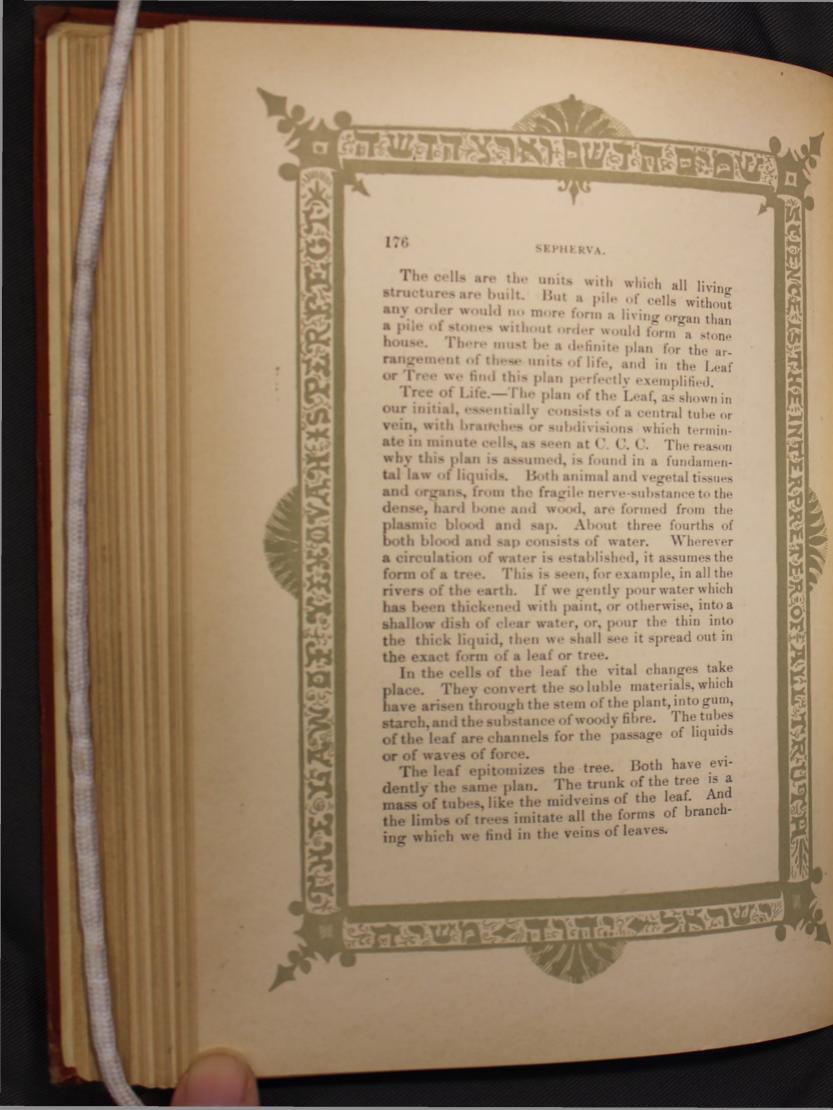
With the higher development of the nervous system, the causes which influence the physical health of man become more and more of a spiritual al nature, more and more dependent upon his intelligent obedience to higher laws of spiritual life.

Human life is not simply individual, each one independent of the rest. Our lives are so bound up in the lives of others, that as separate individuals we cannot yield a full obedience to the laws of life. There must be a collective obedience of society, before the life of any one of its members can be complete, or secure.

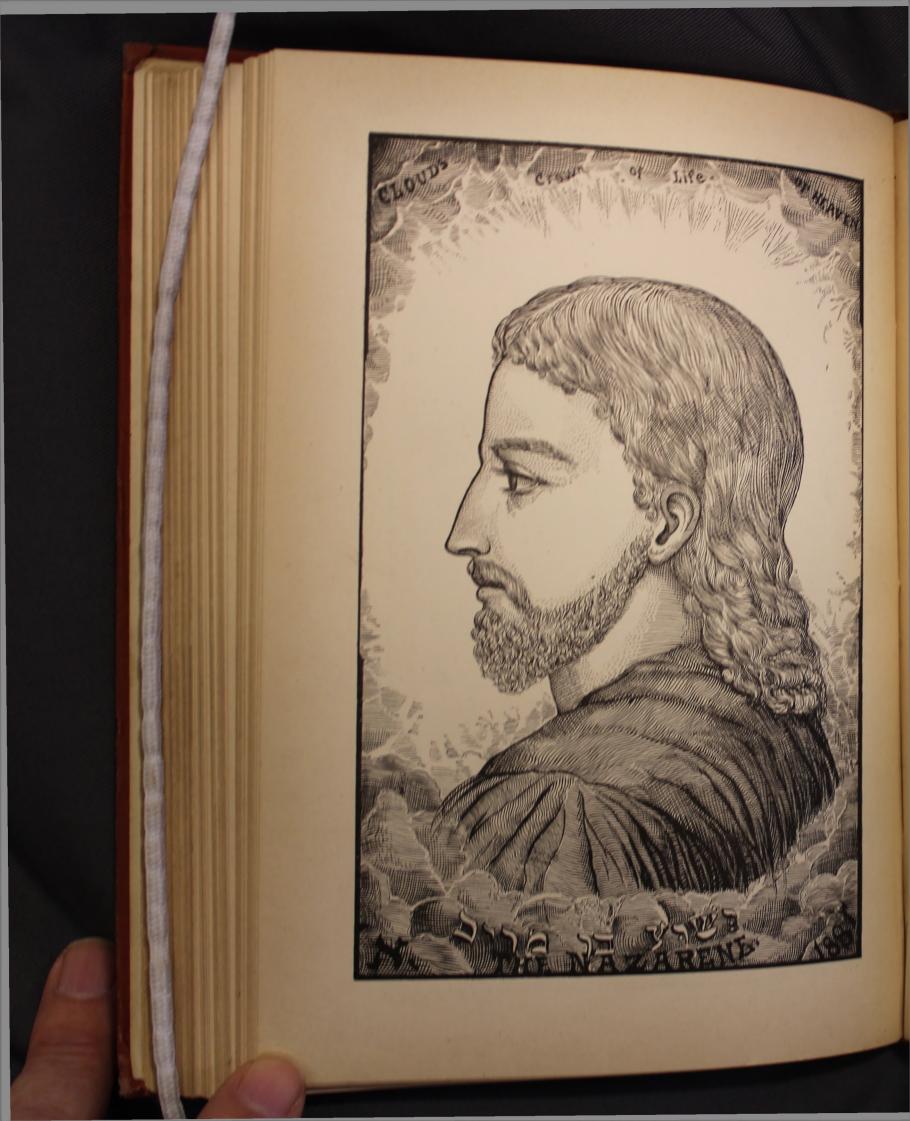
Fourth Seal.—The symbol of this was a pale horse, and it represents the reign of death through Appetite and the senses. This began in the Garden of Eden with the Tree of Life. It must end by opening the way of the Tree of Life, as we shall see in the following exposition.

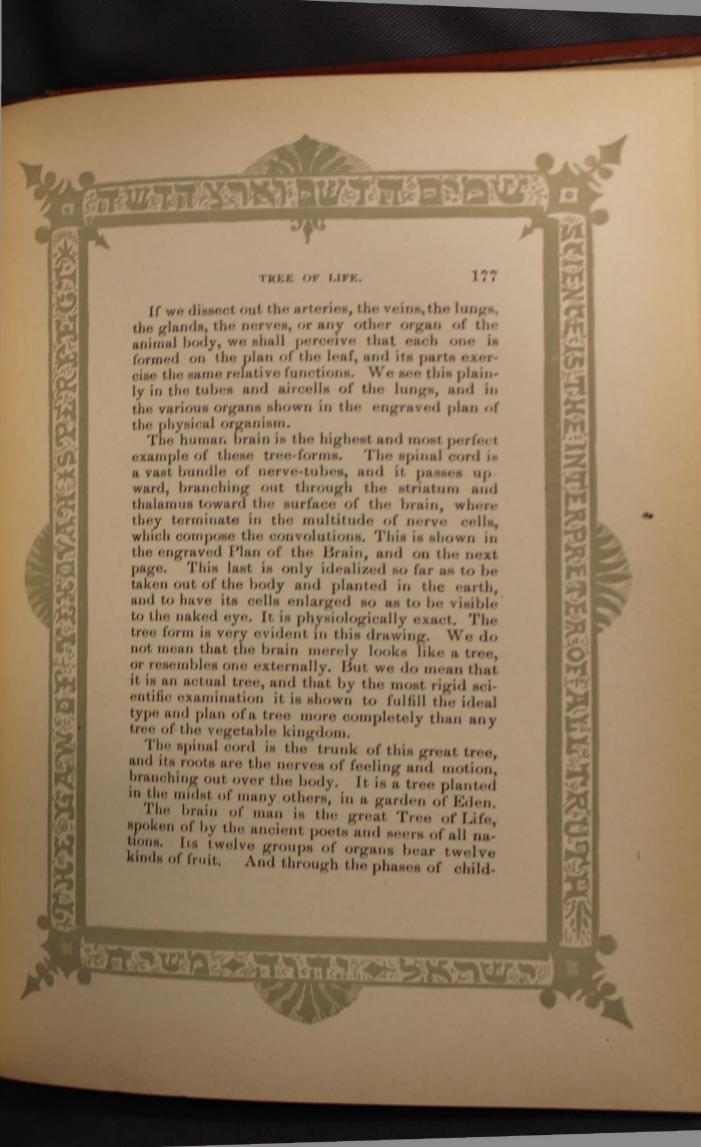
The Cell.—The molecules of bioplasm arrange themselves in the form of Cells. The cell is usually microscopic in size, it may have an external cell-wall, and an internal circulation of its parts around the nucleus, N. The cell is the organic unit of structure. For all vegetable and animal tissues are formed by the evolution and action of these minute cells.

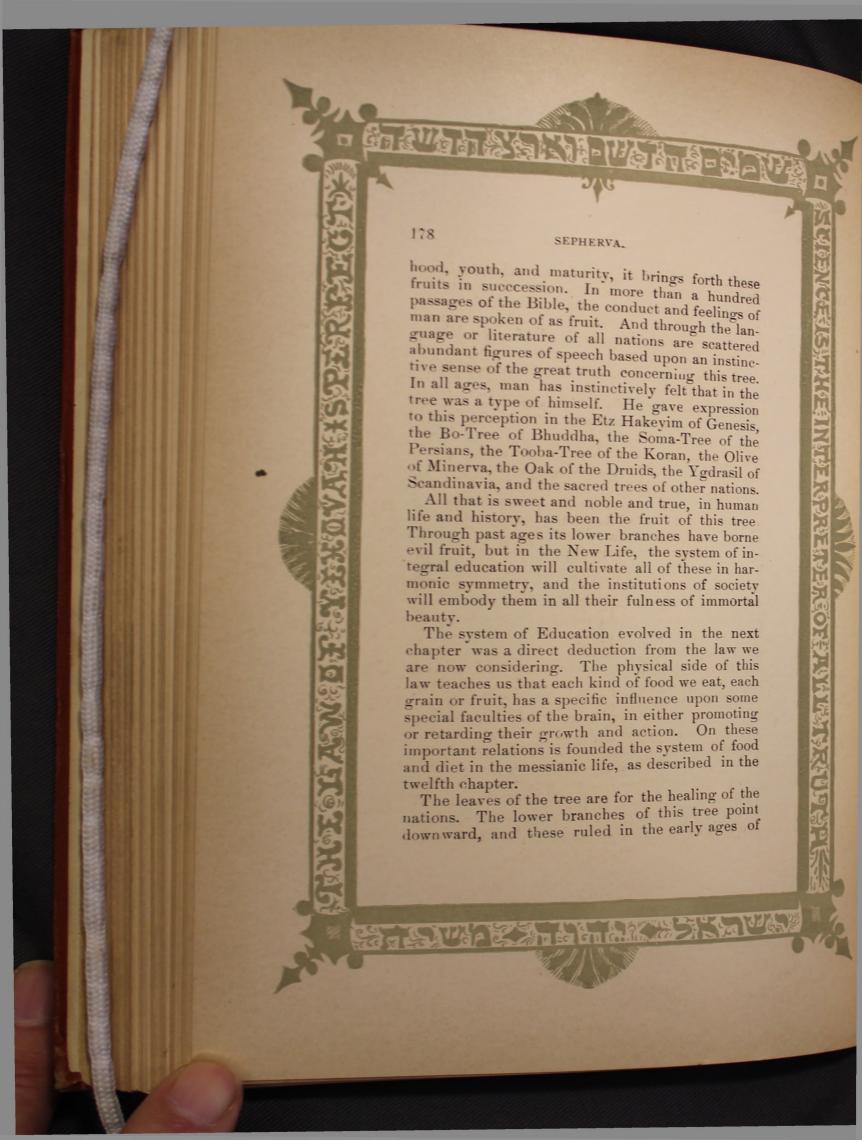
In the mineral or lifeless world, we find the unit of structure in the Crystal. The crystal is bounded by straight lines, and its poles, or lines of force, point outside of itself, as seen at AB, CD, and EF, in the initial engraving. The cell, on the other hand, also posseses circular polarity.











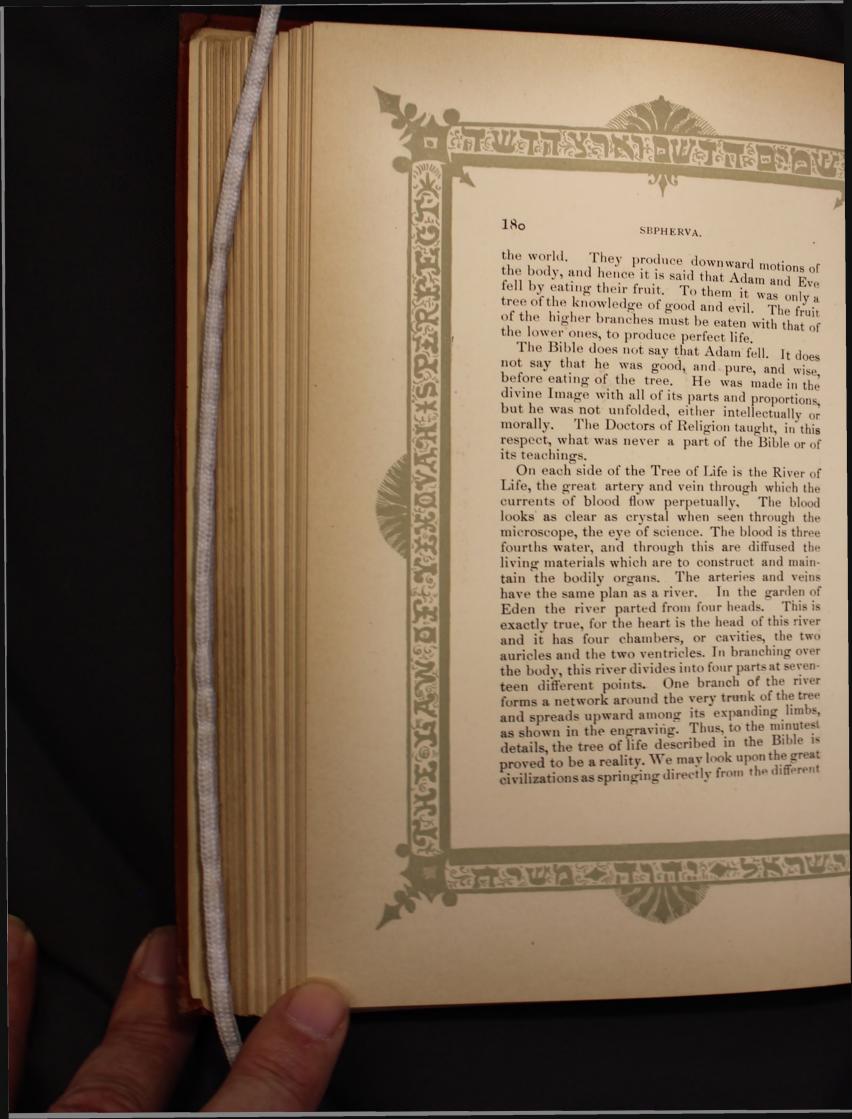
THE TREE OF LIFE.

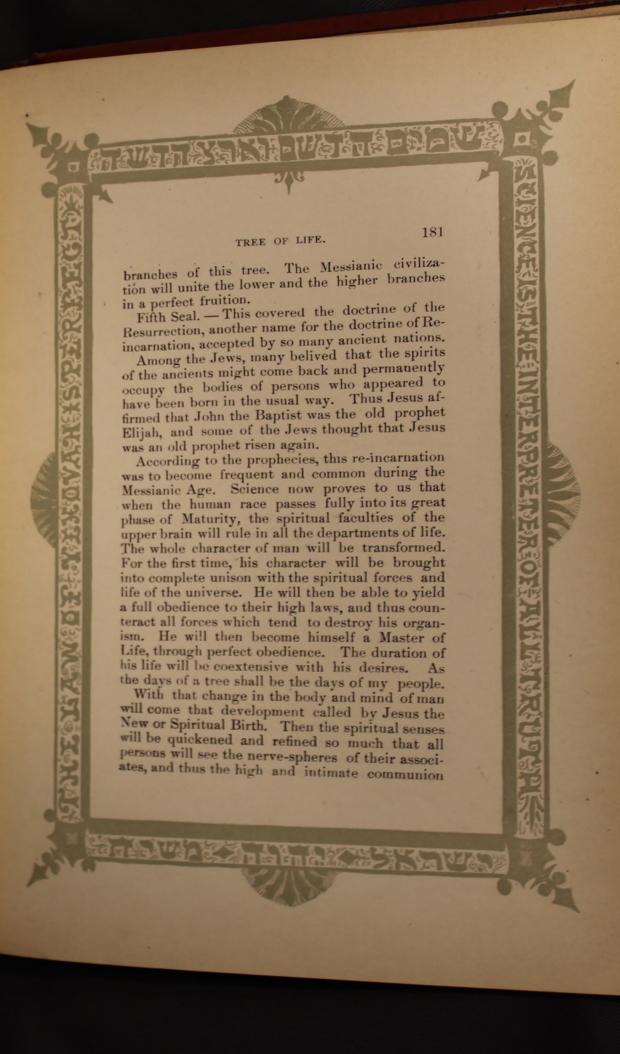
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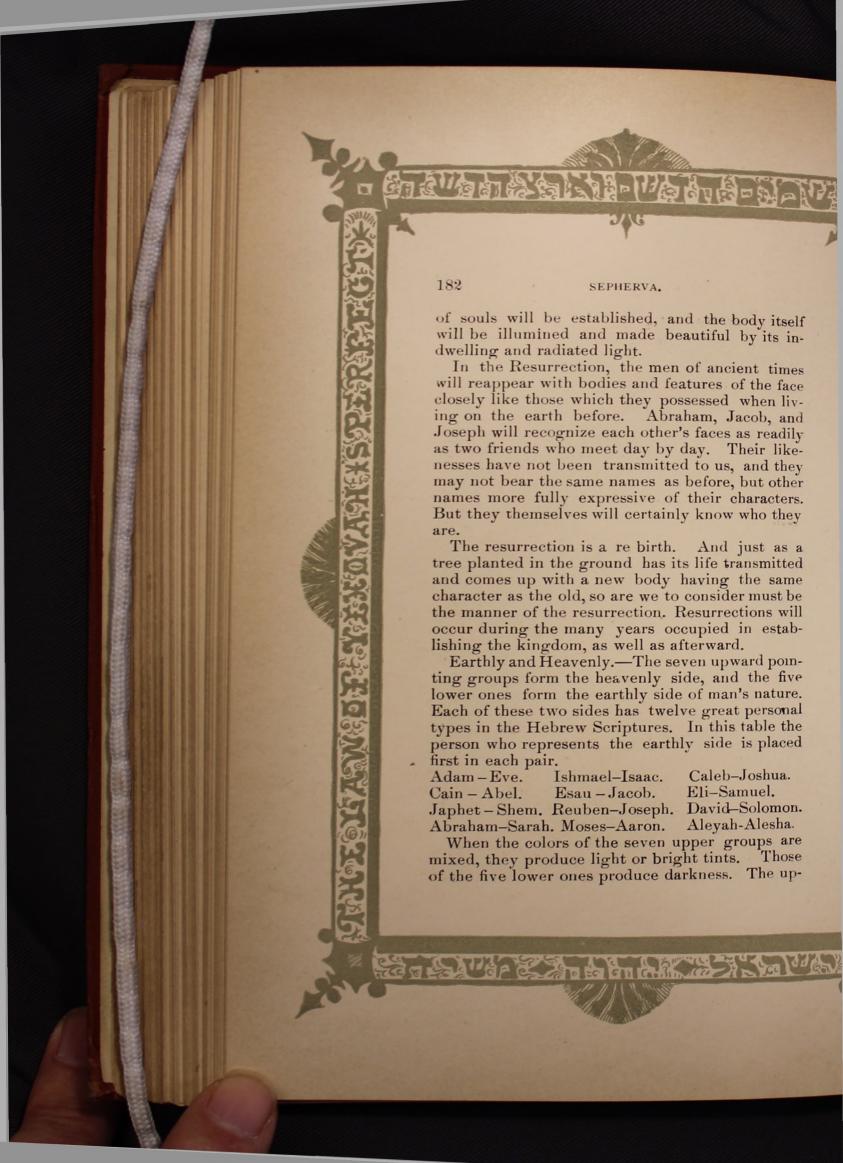


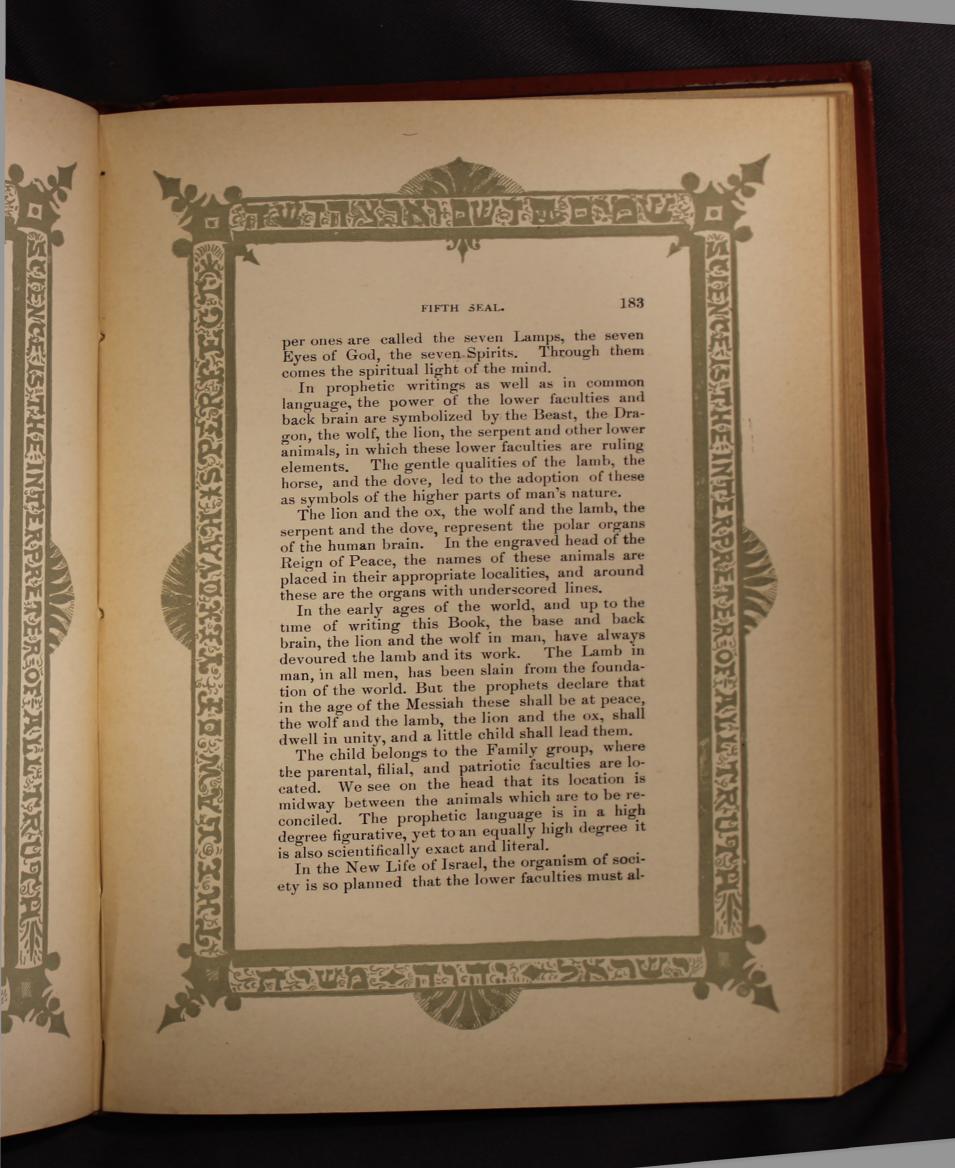
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ways be subordinate to the higher ones. The once conflicting interests of the society are adjusted and balanced by fixed and natural laws of harmony. The fierce and selfish passions which led to war and oppression can no longer rule the nations. The whole character of these lower passions will be changed, softened, and directed to new

objects, by the higher powers.

The great Battle with the Beast is already begun. It is the conflict of both spiritual and material forces, of both institutions and nations. And woe to the statesman who puts on his followers the "mark of the Beast." And he does put this mark on them if he says that selfinterest, or in other words, the beastly faculties, must rule in politics or in social life. The Cotton and Rail-Road Kings, the Merchant Princes and Bankers of Christian Civilization, have the same brand of darkness on their right hands.

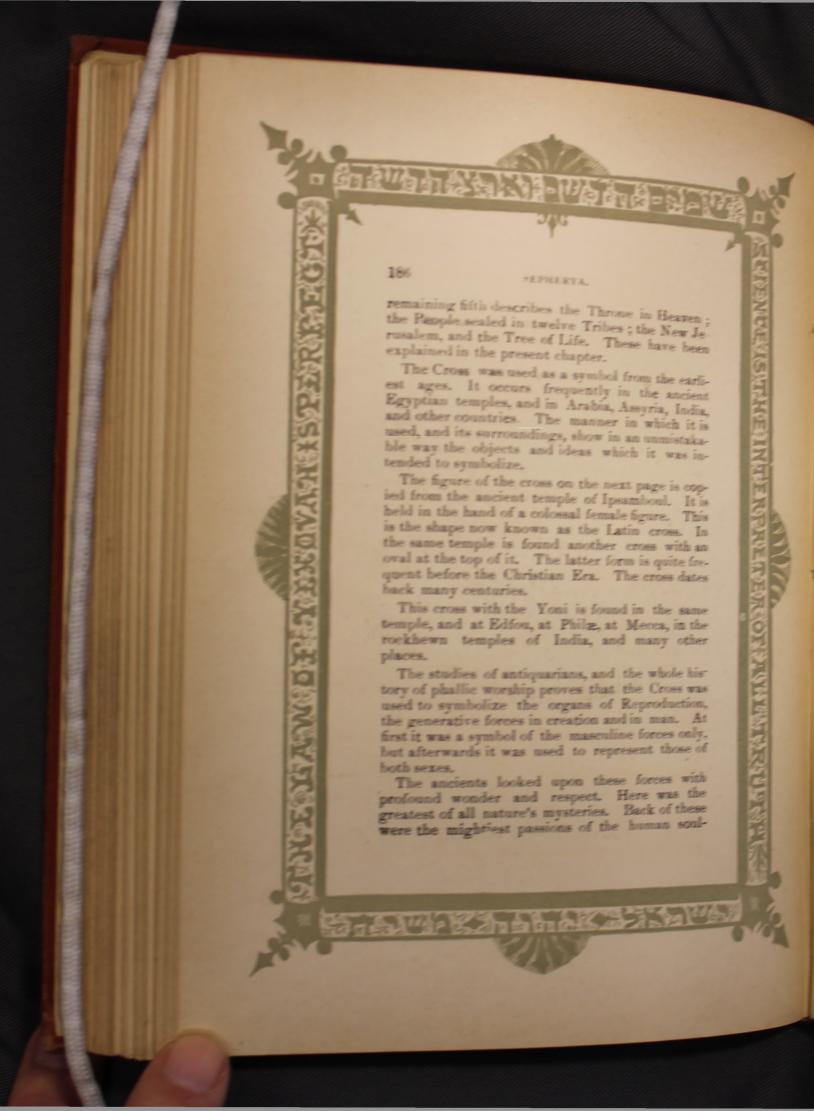
The Seer of Patmos saw the word Mystery, in Greek, Mysterion, written on the forehead of the great image of Babylon. The forehead is the seat of the understanding, the intellect, the eye of the Hence a mark on the forhead must mean a mark on the understanding, in our intellectual conceptions or knowledge. The lower faculties specially delight in mystery, in secret methods, in great swelling words of vague import, in things which perplex our reason, and foil philosophy. In deliberately affirming and teaching "that the Doctrines of Religion are Essential Mysteries" not to be penetrated by the reason of man, in teaching and beliving this, the Protestant, the Catholic, and Greek Churches have alike branded themselves on the forehead with the accursed



mark of the Beast and of Babylon. There is no other possible interpretation to this mark of darkness.

Law of Symbolism. — The process of Construction or growth always involves a succession of steps, taken in a definite order. Thus in the construction of a house, there must first be a foundation, and then the framework, the walls, the roof, floors, plastering, and finally the finish of paint and paper. In the growth of a plant, there is the succession of the seed, the plumule and radicle, the stem, branches, leaves, flowers, and fruit. But conversely, the process of Destruction requires no regularity. We may destroy a house or a tree in a hundred irregular ways. We may burn it, or cut it down, or tear it in pieces, or let it perish by natural decay.

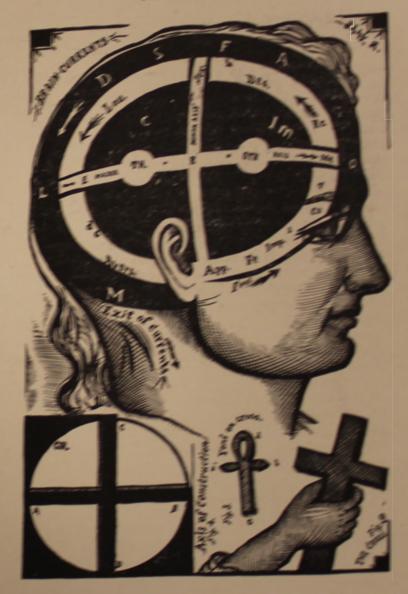
This great law, governing constructive and detructive processes, must apply fully to prophetic symbolism. Those symbols which refer to the formation of new institutions should be fulfilled with exactness of form and order. But those which refer to the destruction of old institutions and modes of life need never be fulfilled with any precision. In the latter class of symbols there are many monstrous objects, such as never had or will have a literal existence. The Great Red Dragon, the Beast with seven heads and ten horns, and such monstrous images, do not require an exact fulfill-For they represent destructive things or In vain may commentators exert their wits to make these and similar figures fit the events of history with any sort of exactness. The law does not require it. These destructive symbols occupy four fifths of the Apocalypse.



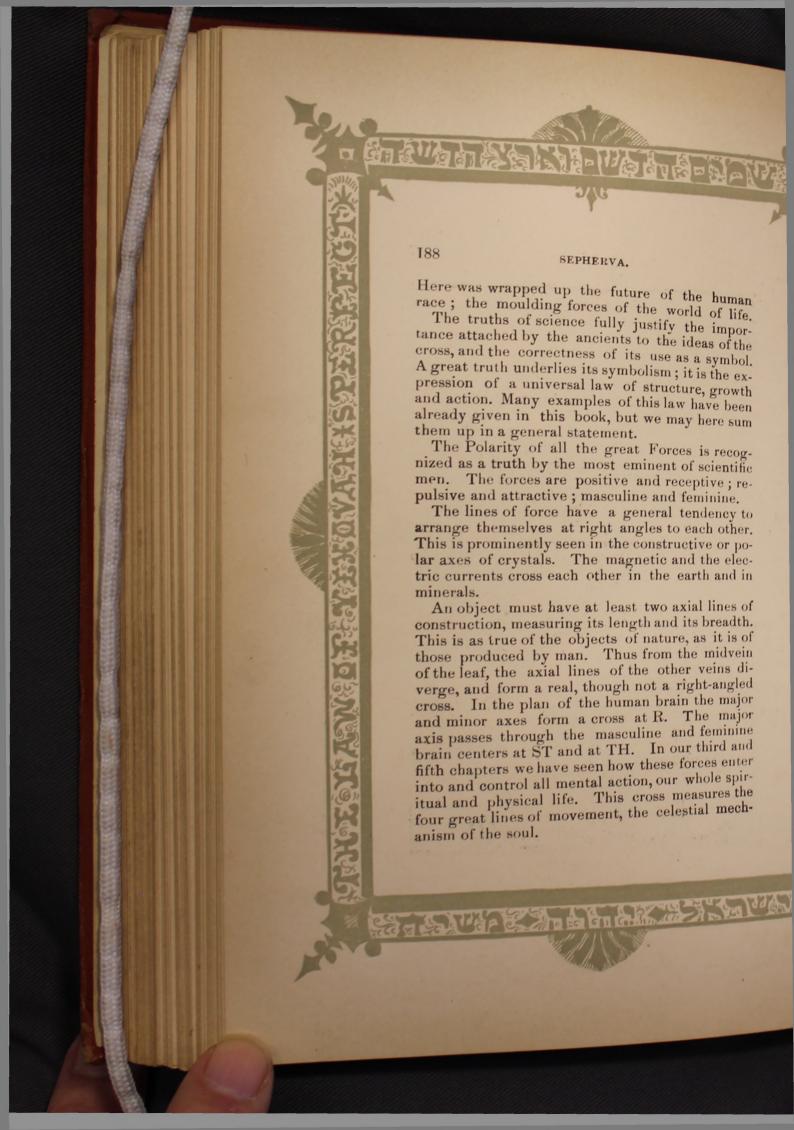
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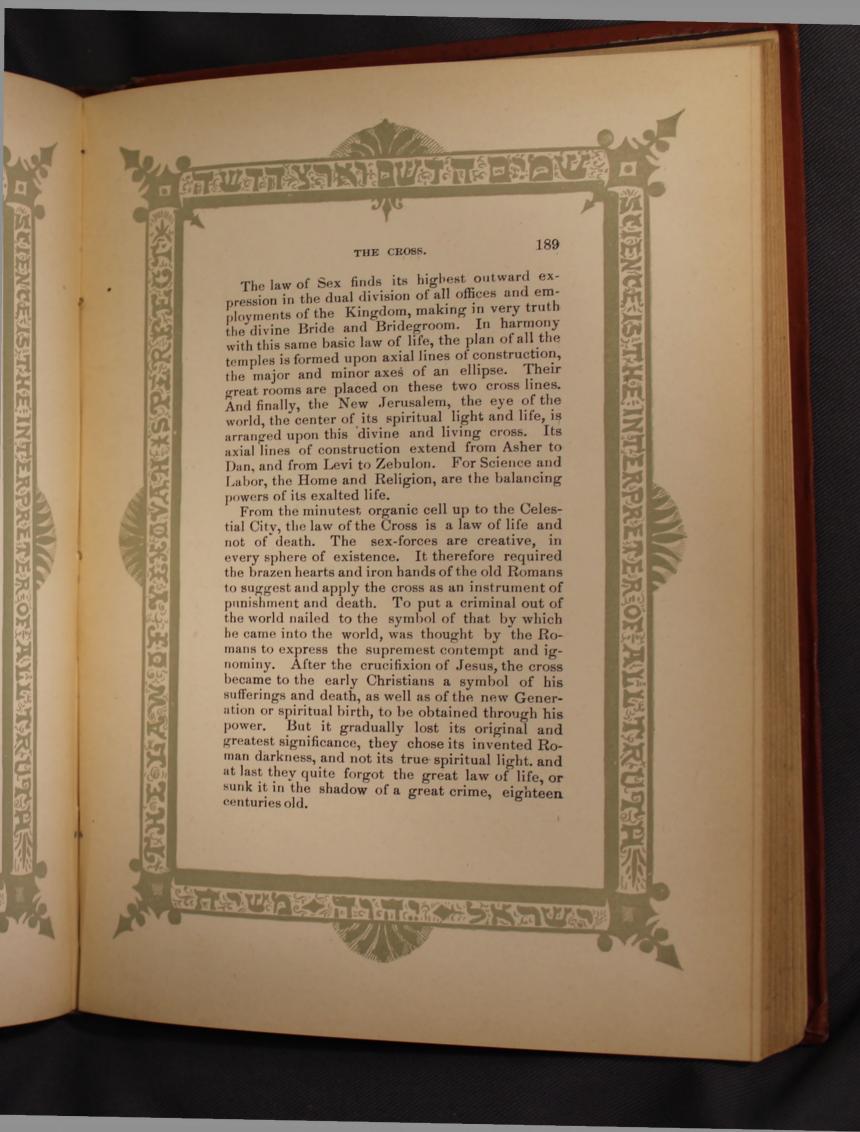
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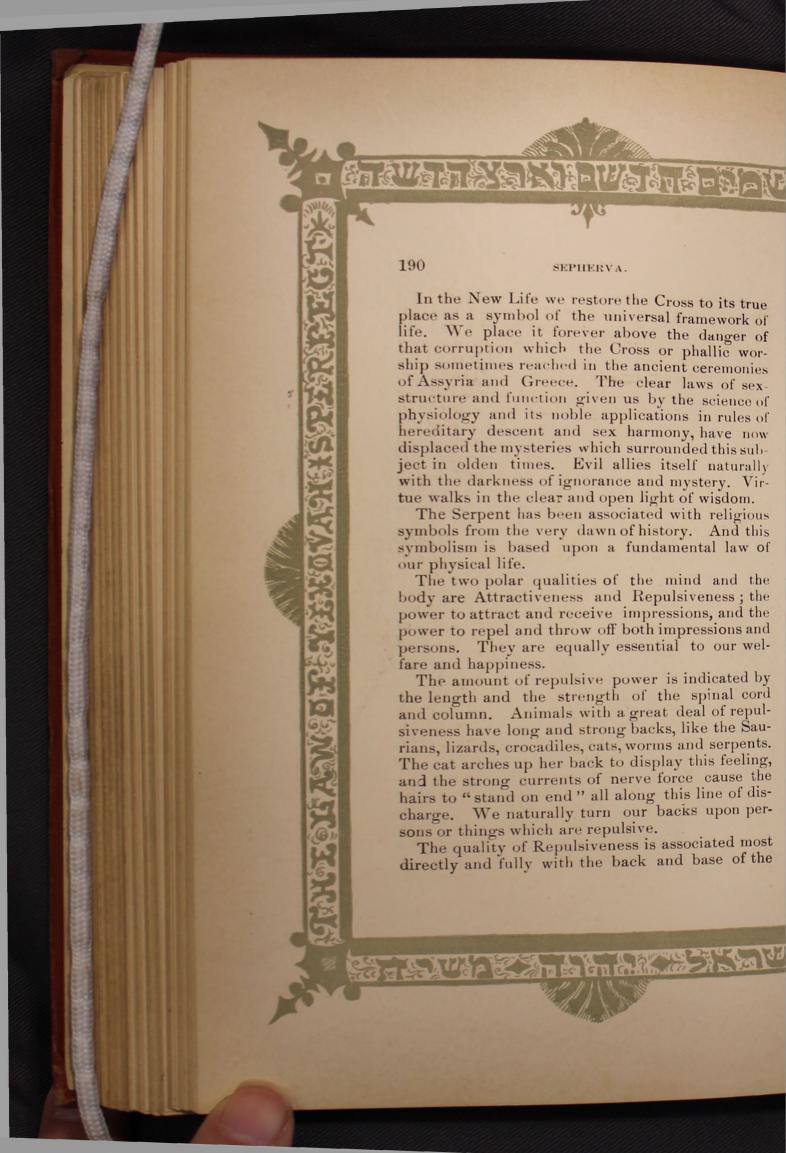
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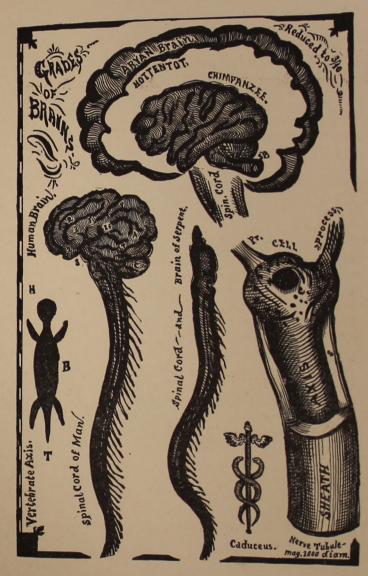


THE SERPENT IN MAN.

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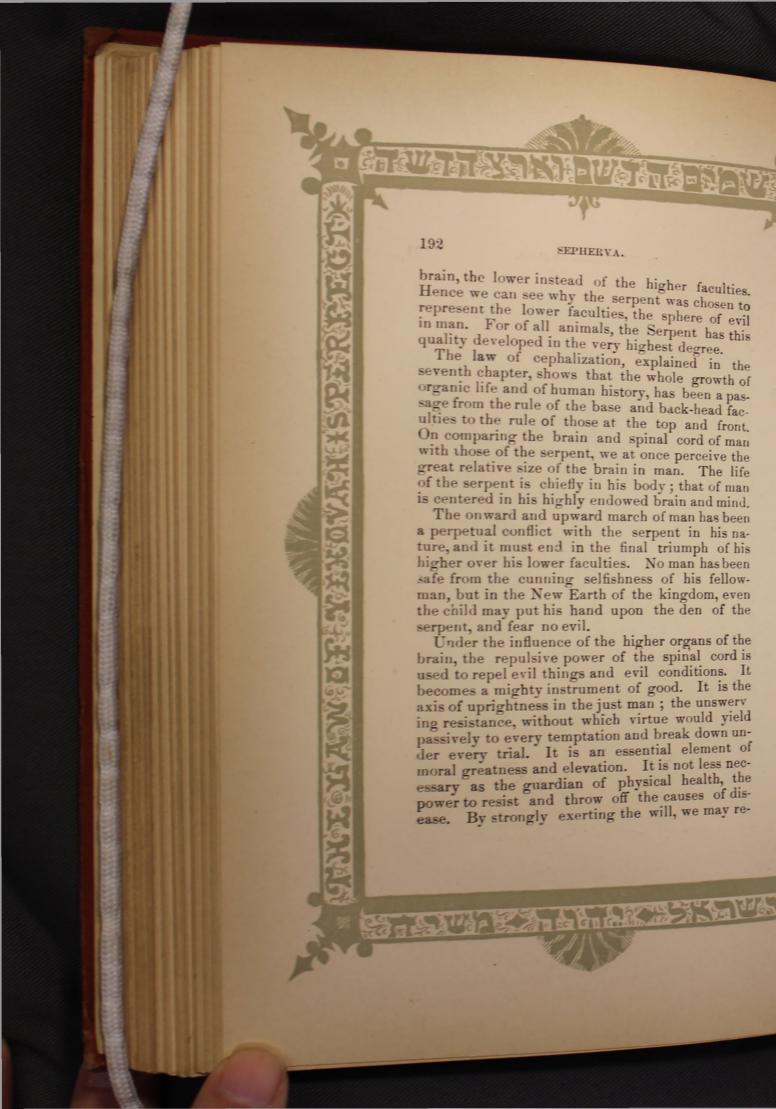
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sist and escape causes of disease which would at once overpower us if we were passive or negative. A good back-bone is a mainspring of health.

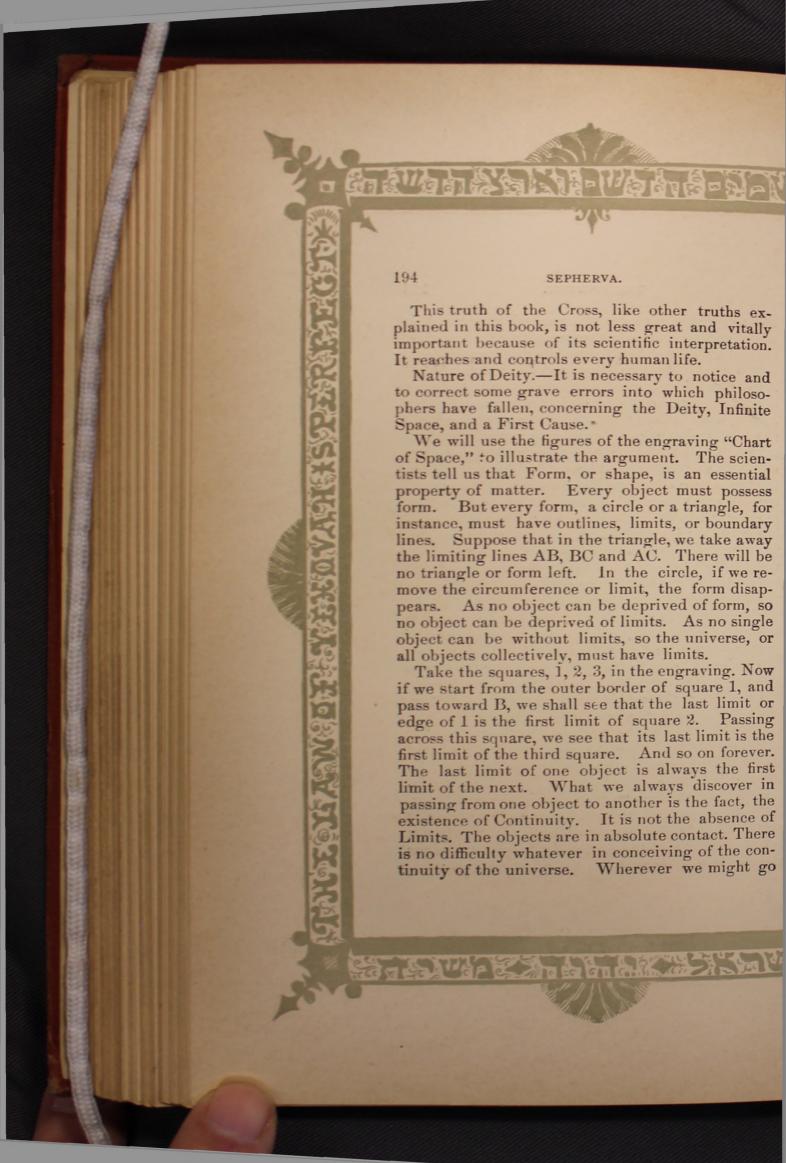
What was once the cause and the instrument of sin and evil in man, while it ruled him, is the very citadel of moral defense and the strong arm of health, when it becomes the servant of his higher nature. It was with the extreme propriety of exact truth that the serpent was chosen to symbolize evil, and was associated with the Tree of Life in the beginning of man's sinful career. It was with equally exact scientific truth that Moses lifted up the serpent in the wilderness as a symbol of healing, and that the Messiah was called the good serpent, who was to bind and destroy the old serpent, the leader of the hosts of evil with his myriad followers in the animal nature of men. This is vividly described in the Apocalypse of John.

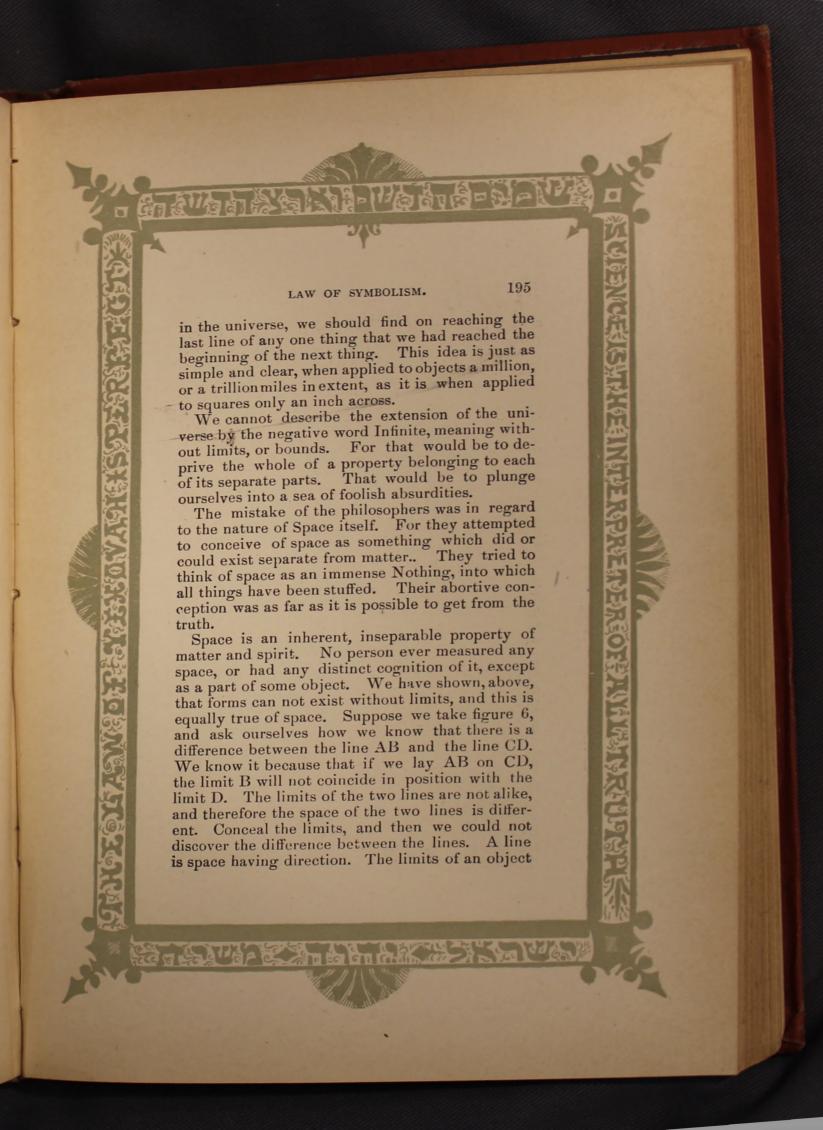
The Caduceus of Mercury, the two serpents twined around a rod, were not only a symbol of wisdom and power, but also of the Healing Art, of Esculapius and his work in restoring the body. The serpent in man, the spinal cord, becomes in the New Life, the actual trunk of the Tree of Life, whose leaves are for both the spiritual and the

physical healing of the nations.

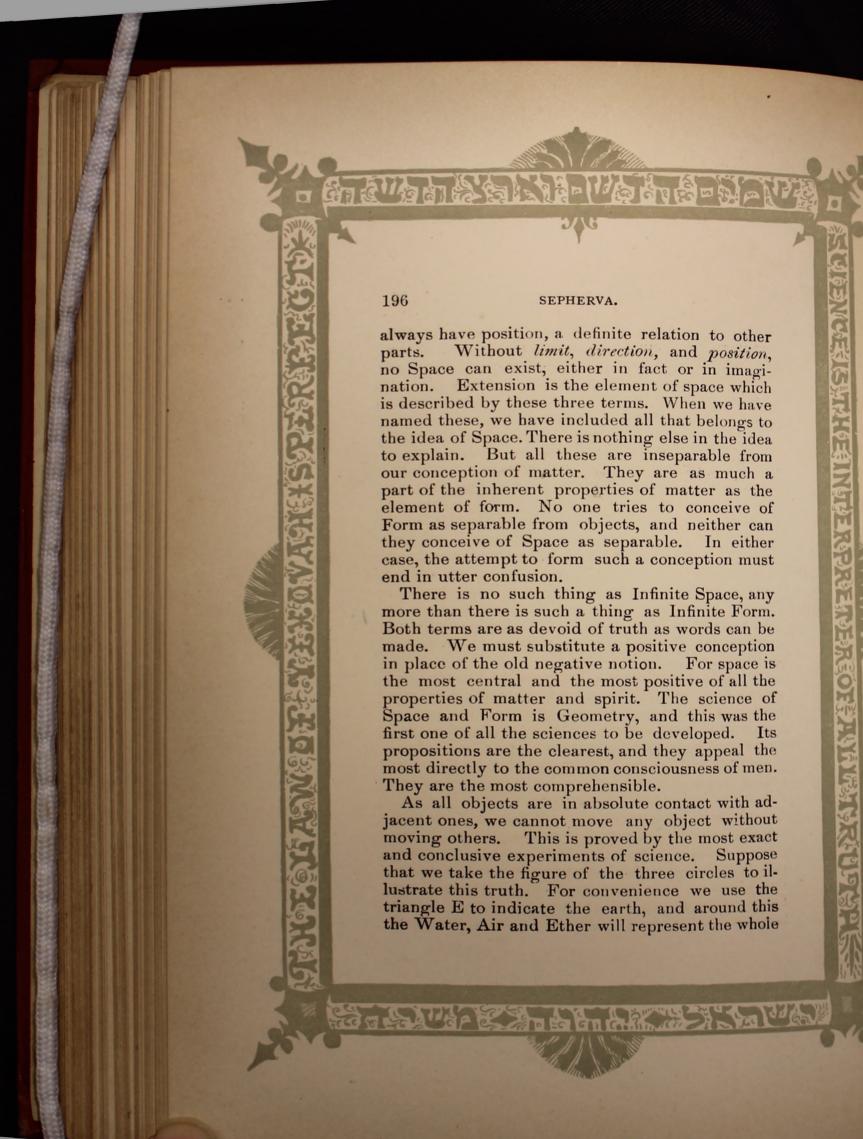
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Both Tree and Serpent worship has extended very widely, and has been interwoven with the life and language of all peoples. With us, in Israel, the divine cross in man and in the great city, is a living standard by which our daily conduct is measured, and the perpetual balance of its forces is adjusted. And the serpent in man is no longer the emblem of sensualism, but of moral vigor.





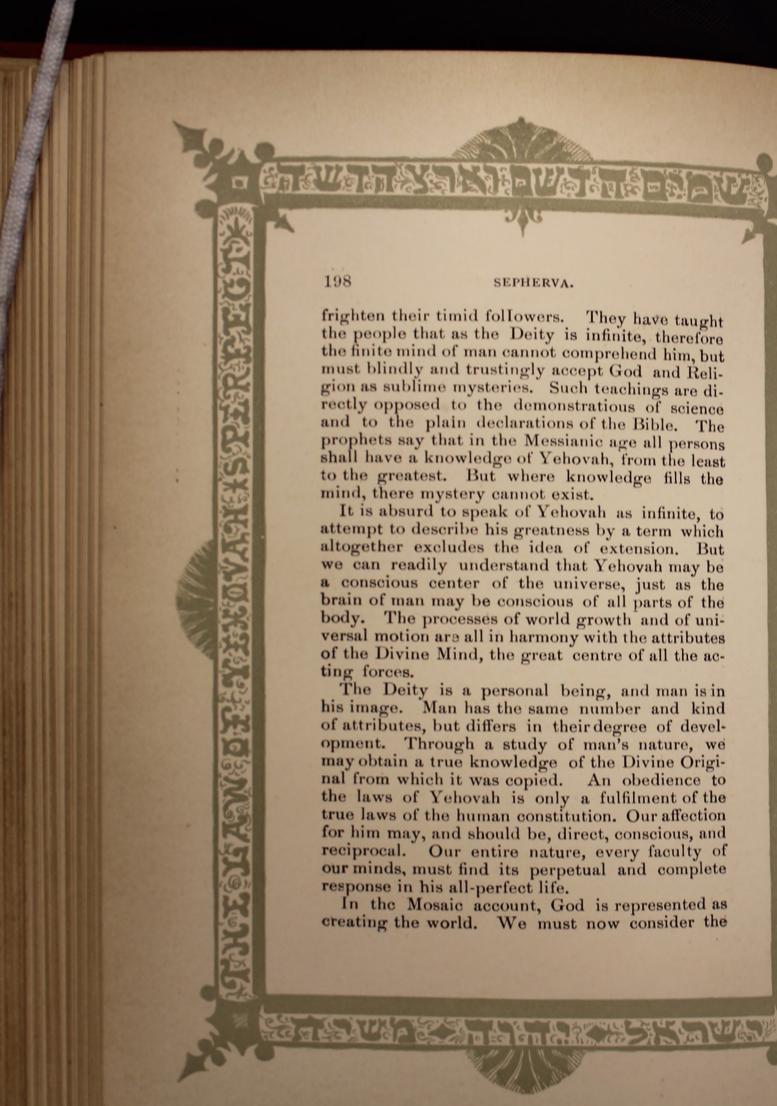
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universe, or all that we can conceive of it. if we revolve this circle from the first to the second and third positions, we see that the Water, the Air and Ether all change places with each other; they change their relative position. When one moves the others must move also. There are no blanks between them, no spaces without any-The water, the air and the ether, thing in them. each keeps all the space it had, all of its magni-The element in which the tude or dimension. change takes place, is that of position, the relative direction of the object is no longer what it was at first.

In our common experience, the senses only partly inform us of the actual fact of the case man walks into a room, and does not see that in order to do so, he had to push a quantity of air, equal to the size of his body, out of the room. He swings his hand in the air, without seeing that he must move the air in order to move his hand. the air and the ether had been visible to the human eye, then the philosophers would never have thought of forming such an absurd and incomprehensible theory of Space, as that which so long disgraced their works. Upon a vast and vague basis of nothingness they sought to build up the mysteries of theology, and by an impenetrable wall of Infinitude to shut man away from any definite knowledge of his divine Father.

The Universe would be much better named the Totoverse, the All-turning, instead of the One-turn ing. It is all-extended, not infinite. The terms finite and infinite can have no place in a system of exact truth. They have served well as bugaboos with which pseudo-philosophers and priests might



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import of the terms used in that account. The first word used there is Bereshith. Its factors, by analysis, are +2, and $2\times26\times10$. If we translate these sacred numbers, we get this statement: In the primary conception of all things, spirit existed along with matter. These two acted and reacted upon each other according to, or guided by, the twenty-six attributes of Yehovan, until these attributes became expressed in material objects and laws, placing man as the crown of the organic series. No scientist can now speak of the beginnings of world-growth in more exact terms.

The word Bara, translated "create," does not mean to produce from nothing. Its number is 203. This number means that at first there are two things, and these, left free to act upon each other, produce a third thing. Now this is precisely true in every act of making or formation. It must have been as true 6000 years ago as it is to day. The phrase "Vayomer Elohim," "and God said," is used in the account nine times. The number of this phrase is $7 \times 7 \times 7$. As 7 means spiritual force or dynamic energy, this phrase means that spiritual force was used three times, or to the fullest possible extent, as the creative factor. It does not mean that God simply uttered the sounds "Vayomer."

It has been supposed that God has a right to rule the world because he made it. But he is not the God of the dead, but of the living. His rulership depends upon his now being the center of all spiritual forces.

Another error of many philosophers was in regard to a first Cause. A single example will illustrate this. The chemical change of combustion



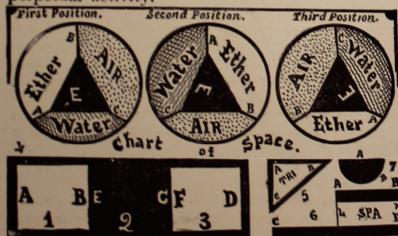
SEPHERVA.

in a lamp is a cause of light. But this light, in turn, causes an impression or effect in the eye. And this effect in the eye, is in its turn the cause of an impression on the brain; and this in turn becomes the cause of a succession of thoughts or of emotions. Now in this case the motion is transferred from one object to another, and what is an effect at one end of each step is a cause at the other end. Cause and Effect are therefore simply terms to designate the different points of the steps in a line of changes, and that line may always be a circle, because all forces are convertible. Hence it is evident that there cannot be a First Cause of all things, anymore than a beginning to the universe.

In all paths of investigation, science teaches that when a new body is formed, the materials have come from the decomposition of some other body. So far as we know at present, one world or solar system may be forming while another is dissolving. The universe, as a whole, never had a beginning, but renewal and decay repeat the cycles of its

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perpetual activity.



PHASES OF GREEK MENTAL LIFE.

Infancy. — From Homer, 800, B. C., to Thales, 636, B. C. They believed the earth to be flat, and

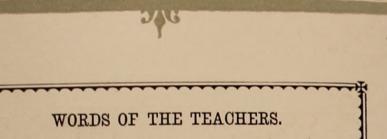
full of dragons, monsters, and marvels.

Childhood.—From Thales to Socrates, 469 B.C. Opening of Egyptian ports, 636 B. C., stimulates Greek thought. Thales teaches that the First Principle is water, and the world has a soul. Anaximander, B. C. 610, discovers obliquity of ecliptic, teaches that the earth is a cylinder; that the sun acts on the miry clay, producing filmy bladders, with a prickly rind, and from these, animals come forth. Pythagoras believes that all things are constituted by the laws of Sacred Numbers.

Youth.—From Socrates, 469 B. C., to Epicurus, 342. Socrates says that mathematics and physics lead to vain conclusions, and Plato thinks that the senses are illusory. He believes that God, Matter, and Ideas are the three primal principles. Epicurus believes in pleasure through temperance, but rejects immortality. Phidias and other artists carry sculpture to a high point of excellence.

Maturity.—From Aristotle, 384, B. C., to Hipparchus, 168 A. C. Aristotle developes the Inductive method in science. Teaches that organic beings form a connected chain. Thinks that the brain is devoid of blood and of sensation. Euclid, 300 B. C., developes Geometry. Archimedes writes on the sphere, cylinder, endless screw, etc. Eratosthenes, 276 B. C., unfolds the first principles of geology. Hipparchus, 168 A. C., discovers precession of equinoxes, and catalogues 1080 stars.

Senility — From 213 B. C. to the closing of the schools of philosophy by Justinian, 529 A. C. It produced mystical and impractical speculations.



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Thou shalt love Yehovah with all thy heart, and

thy neighbor as thyself. Moses, 1571, B. C.
To those of a noble disposition, the earth itself is but one family. Religion is tenderness toward all creatures. HESTOPADES, VISHNU SARMAN. B. C. 1000.

The wise man avengeth his injuries with benefits. LAO- TZE, 604 B.C.

If thine enemy hunger, give him bread to eat; if he be thirsty, give him water to drink. Solomon, 1000 B. C.

Hatred does not cease by hatred at any time. Hatred ceases by love. This is the eternal law. DHAM-MAPADA, 600 B. C.

The true doctrine consists in having the heart right, and in loving one's neighbor as one's self. Reciprocity is the one rule of practice in life. What you wish done to yourself, that do to others. Kong Fu-TSE, 551 B. C. in Lun Yu, 15, 23.

All things whatsoever ye would that men should do to you, do you even so to them, for this is the law

and the prophets. JESUS OF NAZARETH, 31 A. C. The love of all to all, is the moral rule of life.

Pythagoras, 500 B. C.

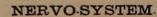
He who commits an injustice is ever made more wretched than he who suffers it. It is never right to return an injury. PLATO, 387 B. C.

As for the Truth, it endureth and is always strong; it liveth and conquereth forever more. It is the strength, the kingdom, the power and the majesty of all ages. ZERUBBABEL, 520 B. C.

To live, is not to live for one's self alone, let us help one another. MENANDER, 293 B. C.

Nature has inclined us to love men, and this is the foundation of the law. Justice devotes itself wholly to the good of others. CICERO, 30 B. C.

The moral condition of the world depends upon three things-Truth, Justice and Peace. RABBI Si-MON, 150 B. C.



203

Brain.

Mentorgans—Rad. Fibres, Cells, Converg. Fibres.

Centers—Striatum, Thalamus, Ucenter,

Commissures—Ucefalon, Callosum Tuberum.

Nutro Nerves.
Fibres—Distributed to all the Organs.
Ganglions—Cardicus, Gastricus, Pelvicus.
Bands—Fibres, con. ganglia and Spinal Cord.

Sensi Motors.
Sensors—Special and Spinal Nerves.
Centers—Medulla Spinalis, Encephalon.
Motors—Special and Spinal Nerves.

NUTRO-SYSTEM.

GENITALS
Femorgans—Vulva, Ovary, Uterus.
Flower—Pistil, Ovary, Stamen.
Mascuorgans—Penis, Testis, Vesiculus.
ALIMENTORS.

Ingesters—Mouth, Salivators, Throat.
Digesters—Stomach, Glands, Intestines.
Egesters—Anus, Kidneys, Skin.

CIRCULATORS.
Arteries—Pulmonics, Capillaries, Systemics.
Heart—Auricles, Valves, Ventricles,
Veins—Pulmonates, Lymphatics, Recursors.

MOTO-SYSTEM.

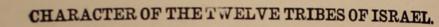
Muscles.

Flexors,
Sphincters,
Extensors,
Limb,
Voluntary,
Mixed,
Elastic tis.
Non-Stri.

Head—Face, Corona, Neck.
Trunk—Thorax, Abdomen, Pelvis.
Limbs—Manupes, Arms, Legs.

Head Bones—Cranium, Nasum, Maxillæ
Trunk Bones—Ribs, Sternum, Vertebræ.

Limb Bones— Shoulder, Arm, Hand.
Thigh, Leg Foot



As Described in the Bible and by Jewish Historians.

(See Genesis xlix. and Milman's and Benisch's History of the Jews.)

In a perfect structure of Society, the members are in twelve groups, each having a dominant group of mental organs, and devoted to corresponding pursuits. The twelve Tribes of Israel were marked by just these same differences, and hence ancient Israel was a true, though an undeveloped type, of the final Social Organism. The grouping of the members in society is the real work of "sealing in tribes" spoken of in the Apocalypse. The names of the tribes, below, are followed by their ruling mental groups, in SMALL CAPITALS, and by the meaning and number of their Hebrew names, in *italics*. In the Breast Plate and New Jerusalem the tribes have the same arrangement as the mental groups in the brain.

JUDAH. MARRIAGE. Heb.—Praise. 5x6. A lion; loving, faithful, and strong. The kingly bridegroom of New Jerusalem and Palestine.

LEVI. RELIGION. Heb.—Joined or unity. 46=5x8 d- 6. Religious, zealous and intense. The priests of this tribe held up the Lights and Perfections of Religion.

JOSEPH. RULERSHIP. Heb.—Adding or Increase. 6 x 26. A ruler crowned over his brethren; ambitious, dignified and aspiring; pushing with the horns of the unicorn.

NAPHTALI. CULTURE. Wrestling. 570. Swift of foot, bland in manners, speaking good words; his group is in the Line of Progress.

ASHLR. SCIENCE. Bringer of Happiness. $10 \times 10 \times 5 + 1$. Mixin with the Phonecians, they became the most scientific of the trief. The railway, locomotive, and engine are the shoes of iron and brass, bringing luxuries to us all.

DAN. LABOR. Judging. 6x9. Shrewd and keen; a swift judge against the oppressors of the poor; striking unjust rulers in secret.

GAD. LETTERS. A Troop or Multitude. 7. His seat was with the law-givers, and the multitude of facts he at last gathers into order.

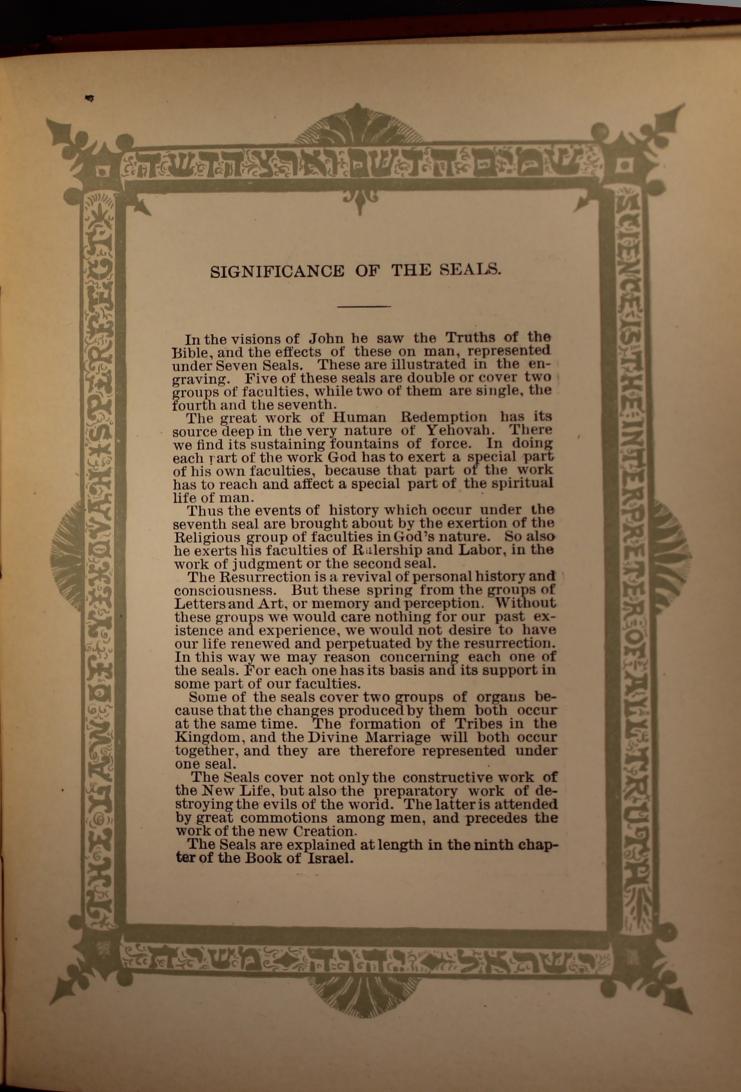
REUBEN. FAMILISM. See a Son. 259. Paternal kindness, pious care. Let not his men be few. As the eldest born, he represented the family.

BENJAMIN. WEALTH. Son of the right hand. 5x19. Bold, warlike, and acquisitive. A wolf going to the prey and dividing the spoil.

SIMEON. ART OR PERCEPTION. Hearing or Perception. 470. The Simeonites became the scribes and musicians, the artists of Israel.

ZEBULON. Home. Dwelling. 178. Love of home and its comforts, of sensuous pleasures, of landscape and waterscape.

ISSACHAR. COMMERCE. A hire. 830. A strong ass, bearing two burdens, the beast of Hebrew commerce; a worker for hire

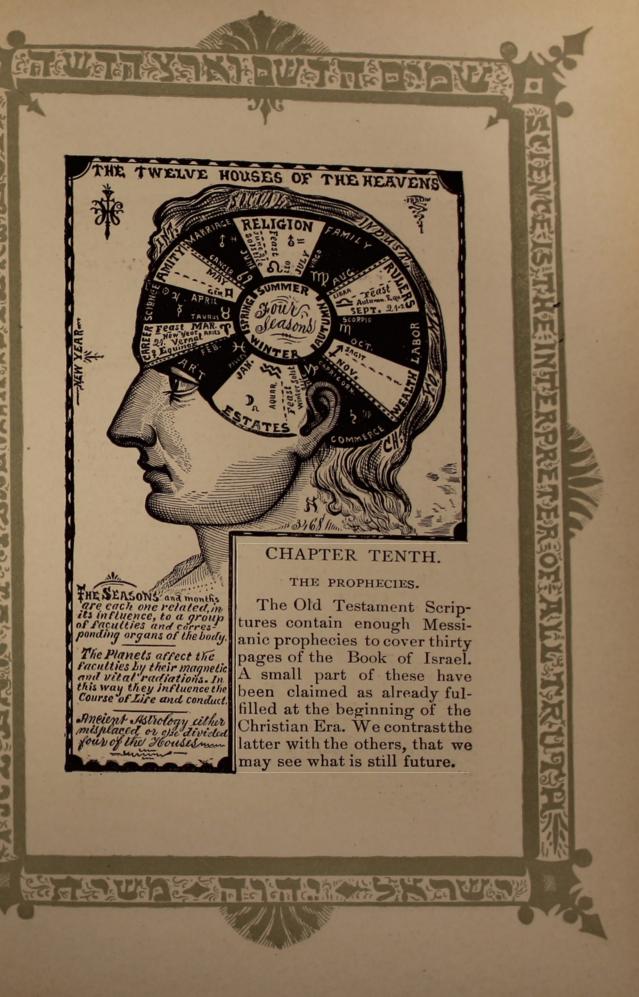


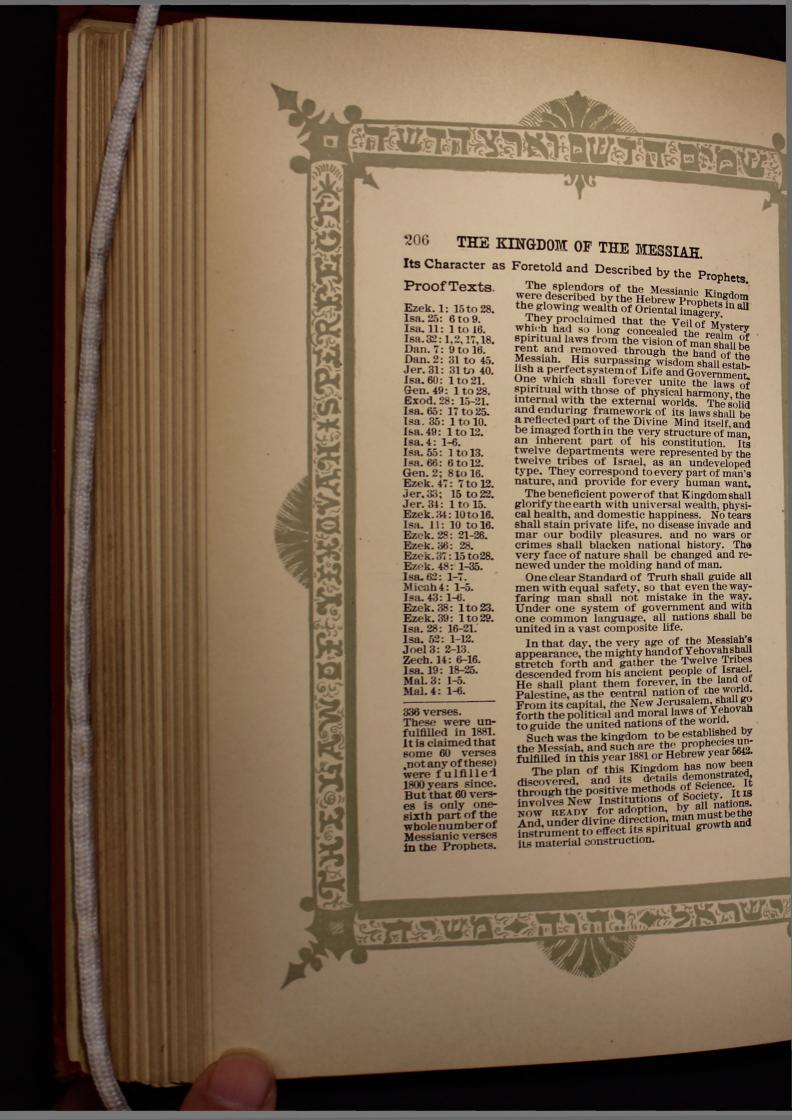
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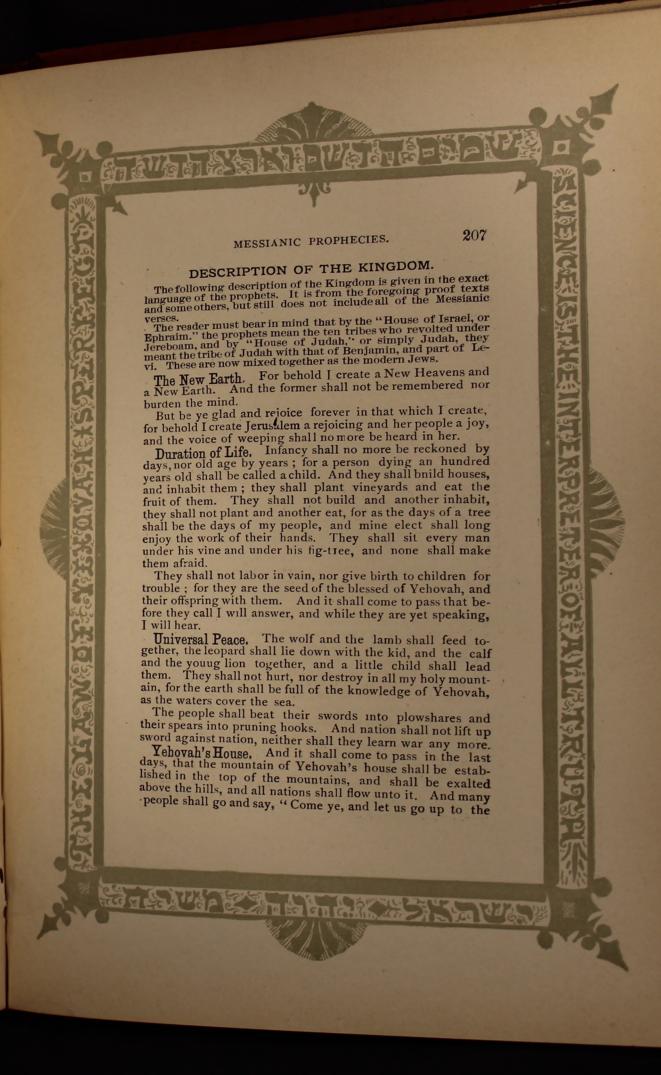
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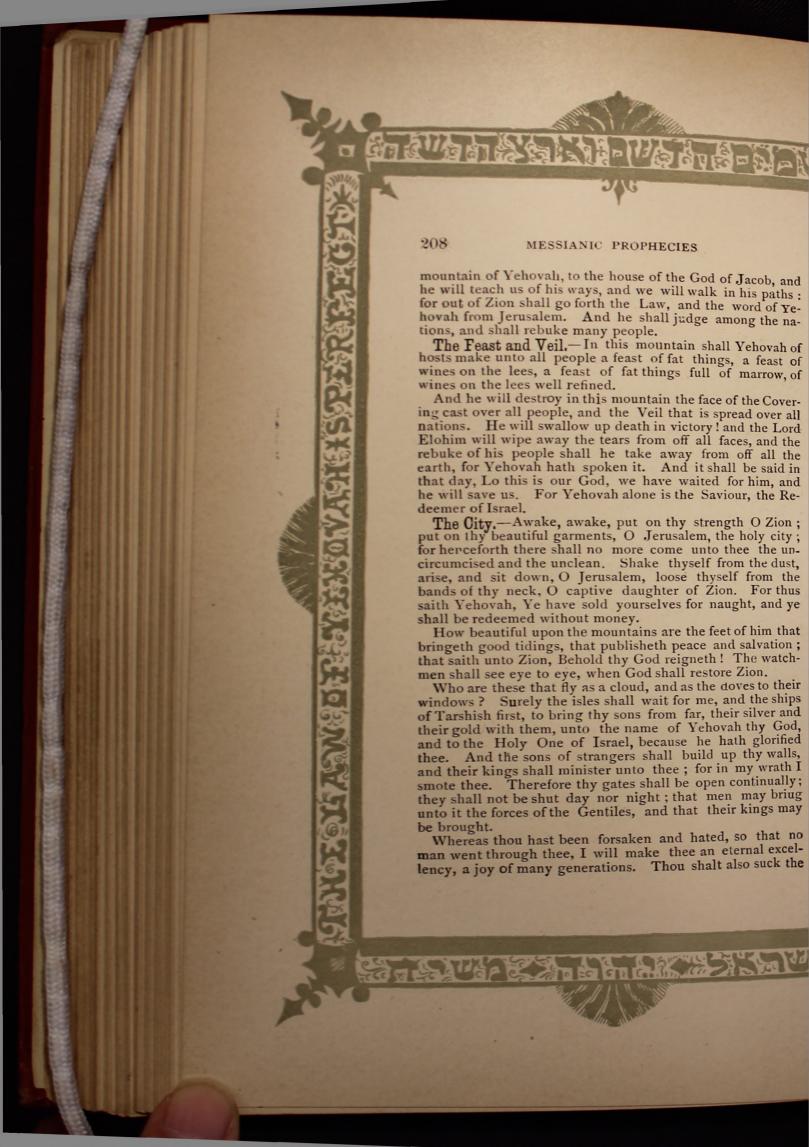
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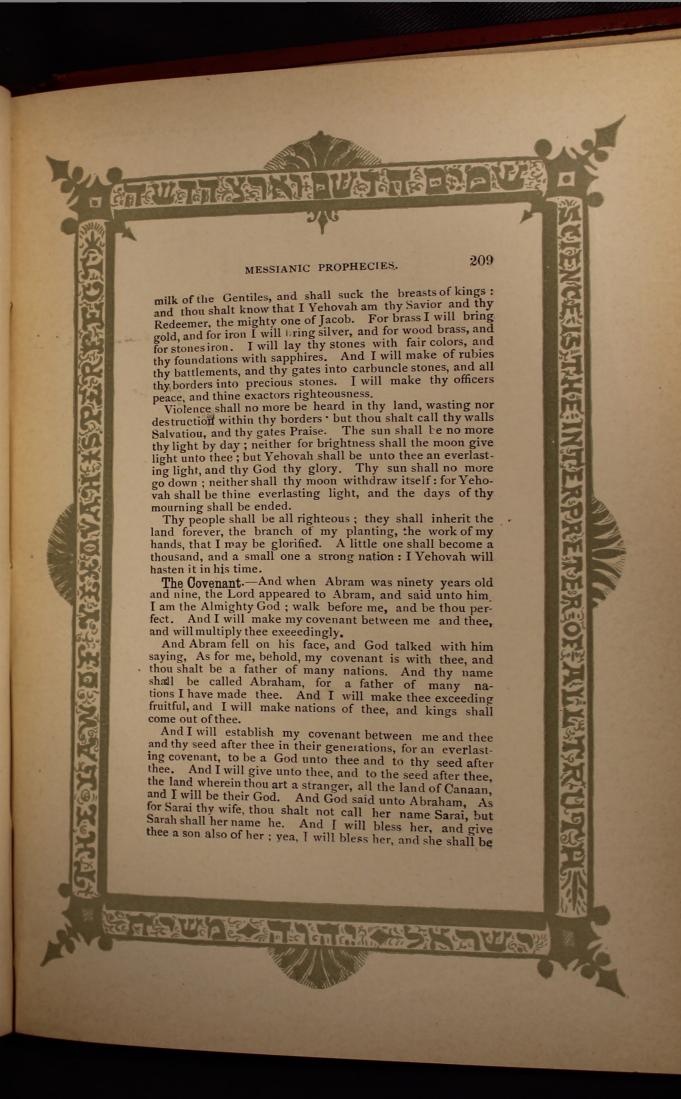




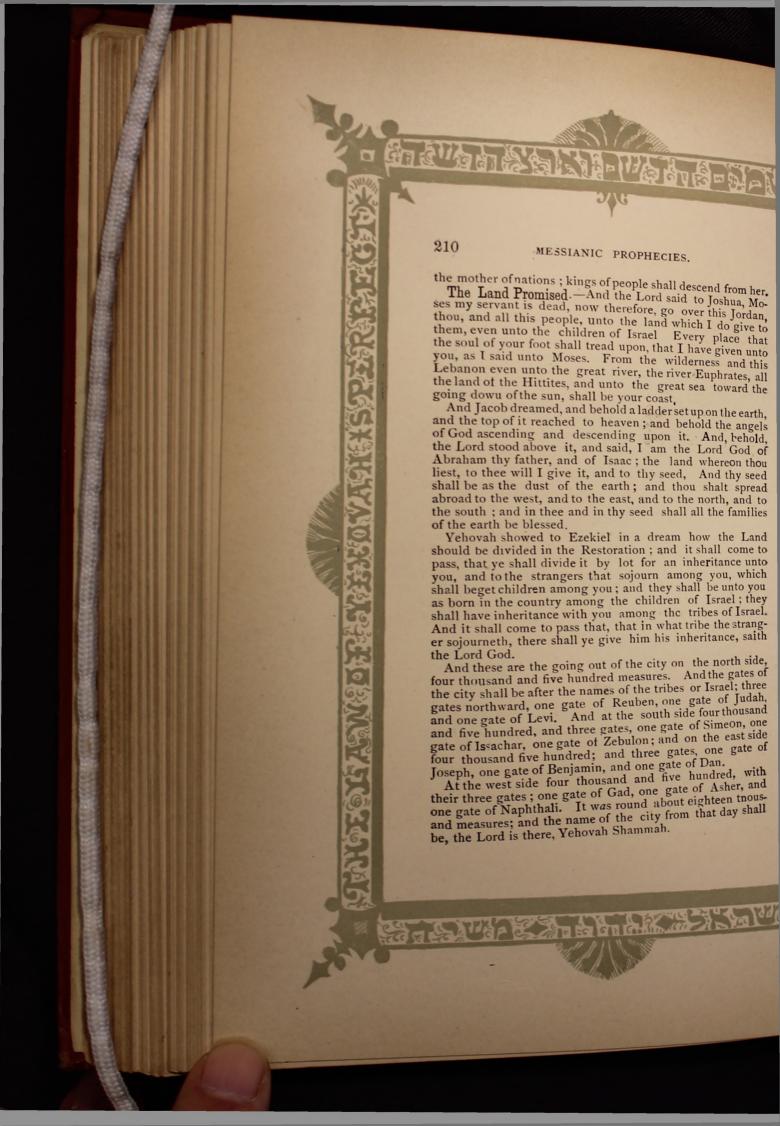


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The Land Renewed. — The wilderness and the solitary place shall be glad for them; and the desert shall rejoice, and blossom as the rose. It shall blossom abundantly, and rejoice even with joy and singing: the glory of Lebanon shall be given unto it, the excellency of Carmel and Sharon: they shall see the glory of the Lord, and the excellency of our God.

Strengthen ye the weak hands, and confirm the feeble knees. Say to them that are of a fearful heart, Be strong, and fear not; behold, your God will come with vengeance even God with a recompense; he will come and save you.

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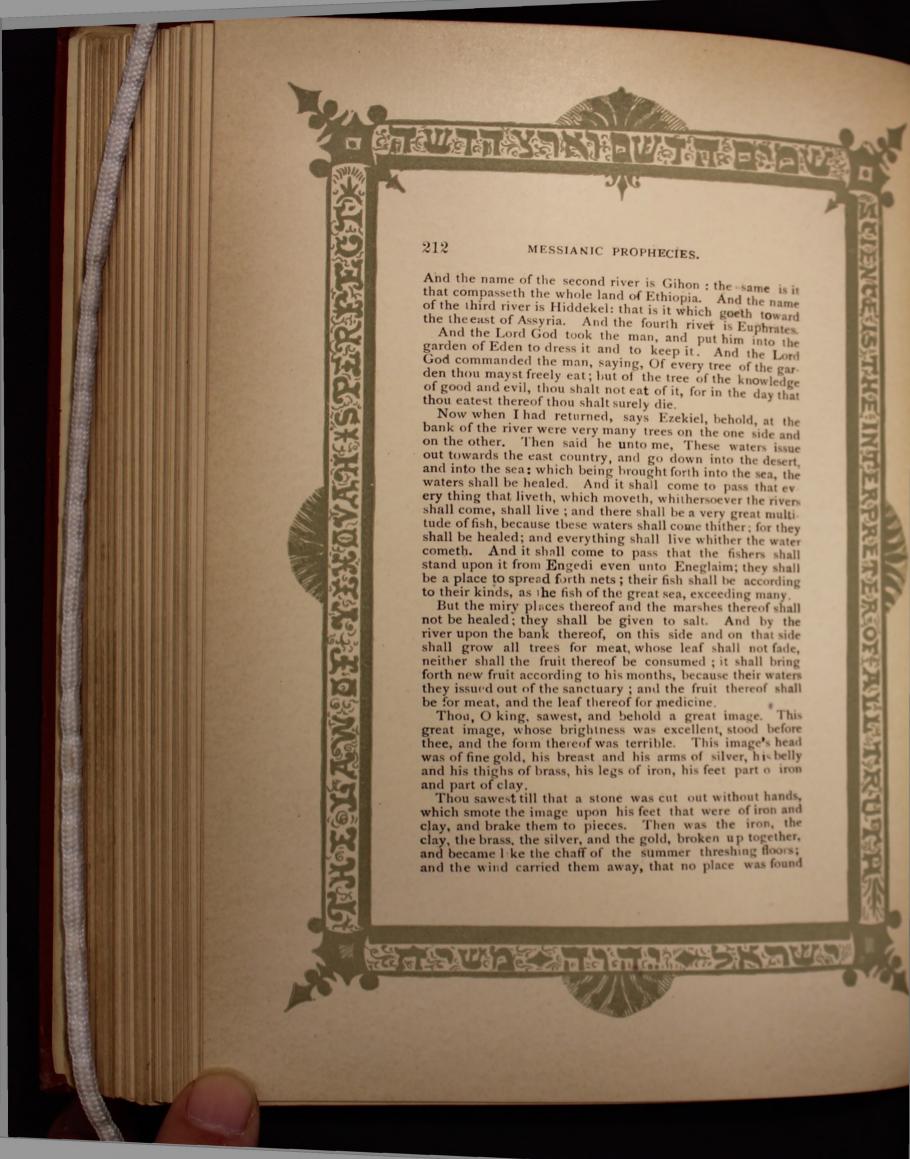
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Then the eyes of the blind shall be opened, and the ears of the deaf shall be unstopped. Then shall the lame man leap as a hart, and the tongue of the dumb sing: for in the wilderness shall waters break out, and streams in the desert. And the parched ground shall become a pool, and the thirsty land springs of water; in the habitation of dragons, where each lay, shall be grass with reeds and rushes. So shall ye know that I am the Lord your God dwelling in Zion, my holy mountain: then shall Jerusalem be holy, ard there shall no strangers pass through her any more. And it shall come to pass in that day, that the mountains shall drop down new wine, and the hills shall flow with milk, and all the rivers of Judah shall flow with waters, and a fountain shall come forth from the house of the Lord, and shall water the valley of Shittim.

Egypt shall be a desolation, and Edom shall be a desolate wilderness for the violence against the children of Isnael, because they have shed innocent blood in their land. But Judah shall dwell forever, and Jerusalem from generation to generation. For I will cleanse their blood that I have not cleansed: for the Lord dwelleth in Zion.

And the Lord God planted a garden eastward in Eden; and there he put the man whom he had formed. And out of the ground made the Lord God to grow every tree that is pleasant to the sight, and good for food, the tree of life also in the midst of the garden, and the tree of knowledge of good and evil.

And a river went out of Eden to water the garden; and from thence it was parted and became into four heads. The name of the first is Pisorn, that is it which compasseth the whole land of Havilah, where there is gold; and the gold of that land is good: and there is bdellium and the onyx stone.



for them: and the stone that smote the image became a great mountain, and filled the whole earth.

This is the dream; and we will tell the interpretation thereof before the king. Thou, O king, art a king of kings: for the God of heaven hath given thee a kingdom, power and strength, and glory. And wheresoever the children of men dwelt, the beasts of the field and the fowls of the heaven hath he given into thine hand, and hath made thee ruler over them all. Thou art this head of gold.

And after thee shall arise a kingdom inferior to thee, and another third kingdom of brass, which shall bear rule over all the earth, and the fourth kingdom shall be strong as iron; for as much as iron breaketh in pieces and subdueth all things, and as iron that breaketh all these,

shall it break in pieces and bruise.

And whereas thou sawest the feet and toes, part of potters' clay, and part of iron, the kingdom shall be divided; but there shall be in it of the strength of the iron, forasmuch as thou sawest the iron mixed with miry clay. And as the toes of the feet were part of iron, and part of clay, so shall the kingdom be partly strong, and partly broken. And whereas thou sawest iron mixed with miry clay, they shall mingle themselves with the seed of men; but they shall not

cleave one to another, even as iron is not mixed with clay.

And in the days of these kings shall the God of heaven set up a kingdom, which shall never be destroyed; and the kingdom shall not be left to other people, but it shall break in pieces and consume all these kingdoms, and it shall stand

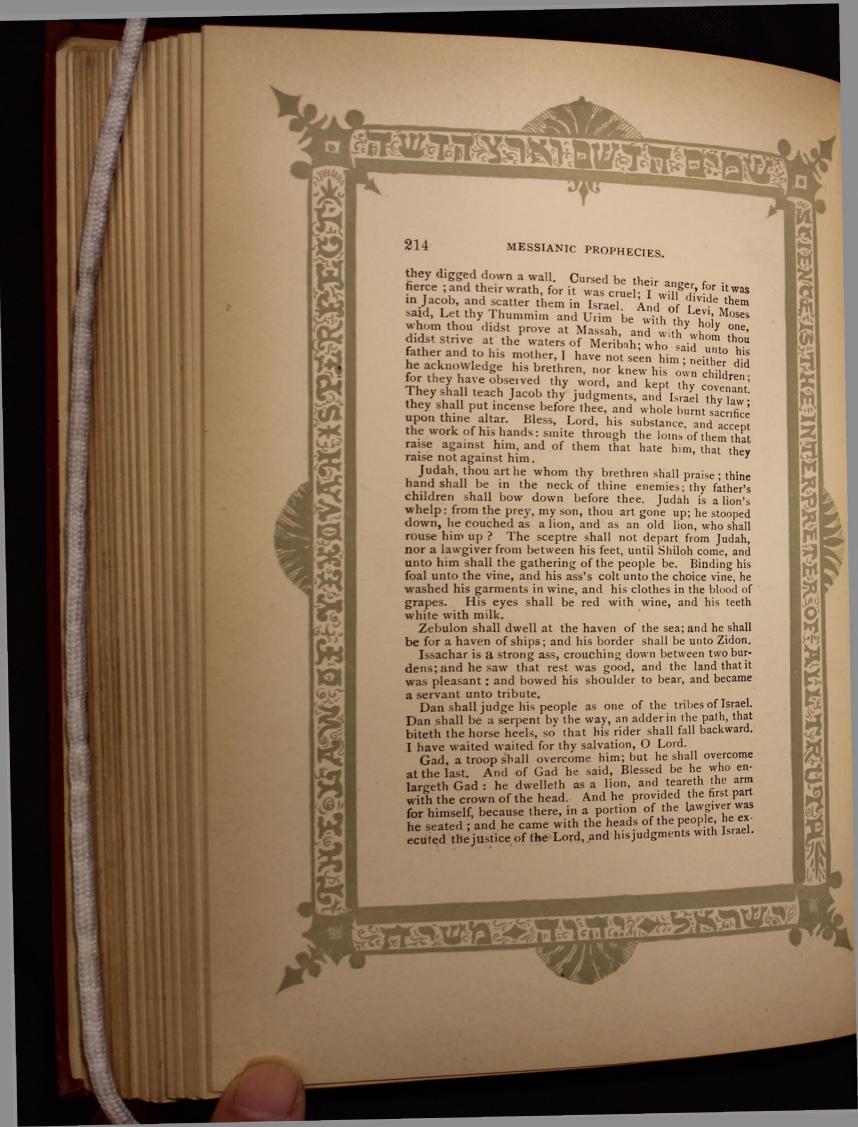
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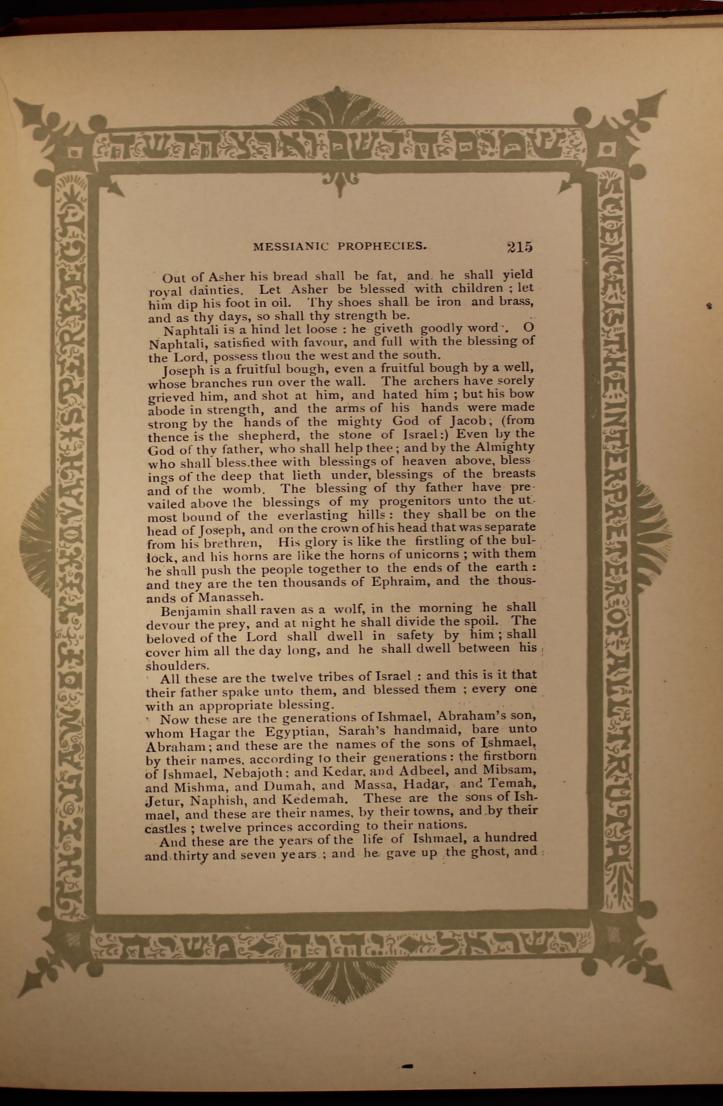
Blessings of Jacob and Moses.—And Jacob called unto his sons and said, Gather yourselves together, that I may tell you that which shall befall you in the last days. Gather yourselves together, and hear ye sons of Jacob; and hearken

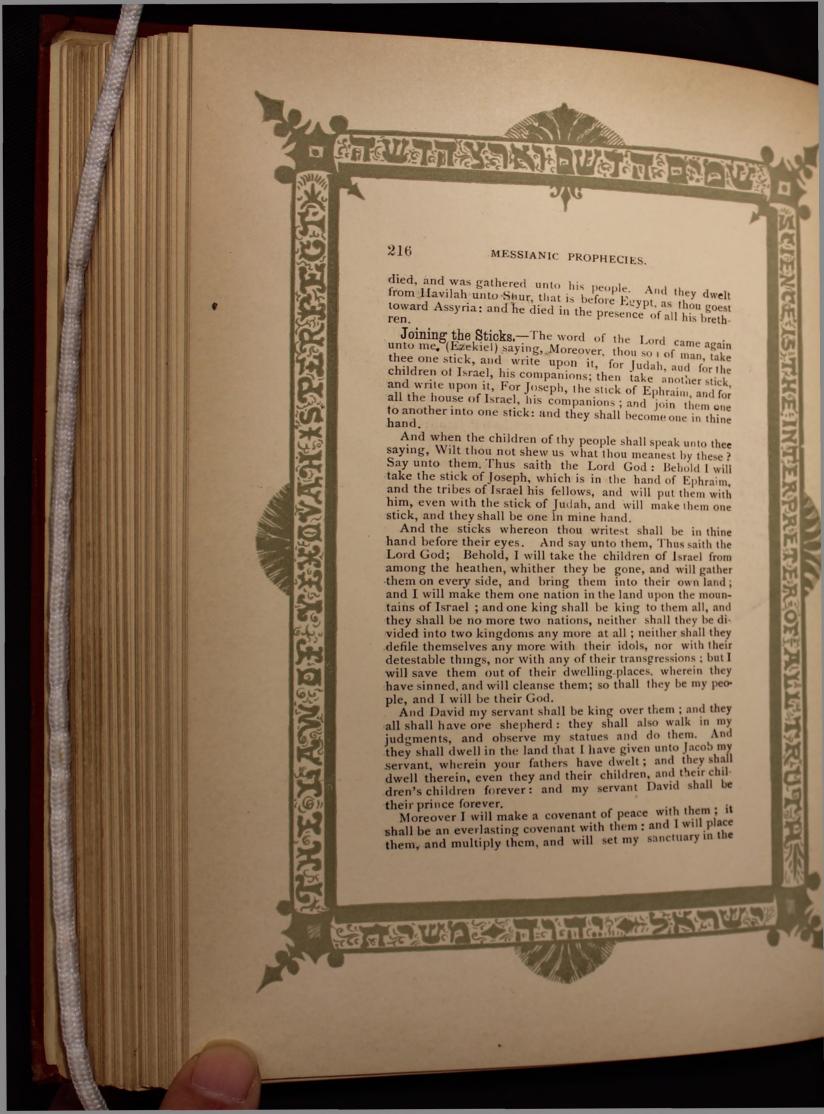
unto Israel your father.

Reuben, thou art my first born, my might, and the beginning of my strength, the excellency of dignity, and the excellency of power: Unstable as water, thou shalt not excel; because thou wentest up to thy father's bed; then defiledst thou it; he went up to my couch. Let Reuben live, and not die, and let not his men be few.

Simeon and Levi are brethren; instruments of cruelty are in their habitations. O my soul, come not thou into their secret; unto their assembly, mine honor, be not thou united; for in their anger they slew a man, and in their self will







midst of them for evermore. My tabernacle also shall be with them; yea, I will be their God, and they shall be my people. And the heathen shall know that I the Lord do sanctify Israel, when my sanctuary shall be in the midst of them for evermore.

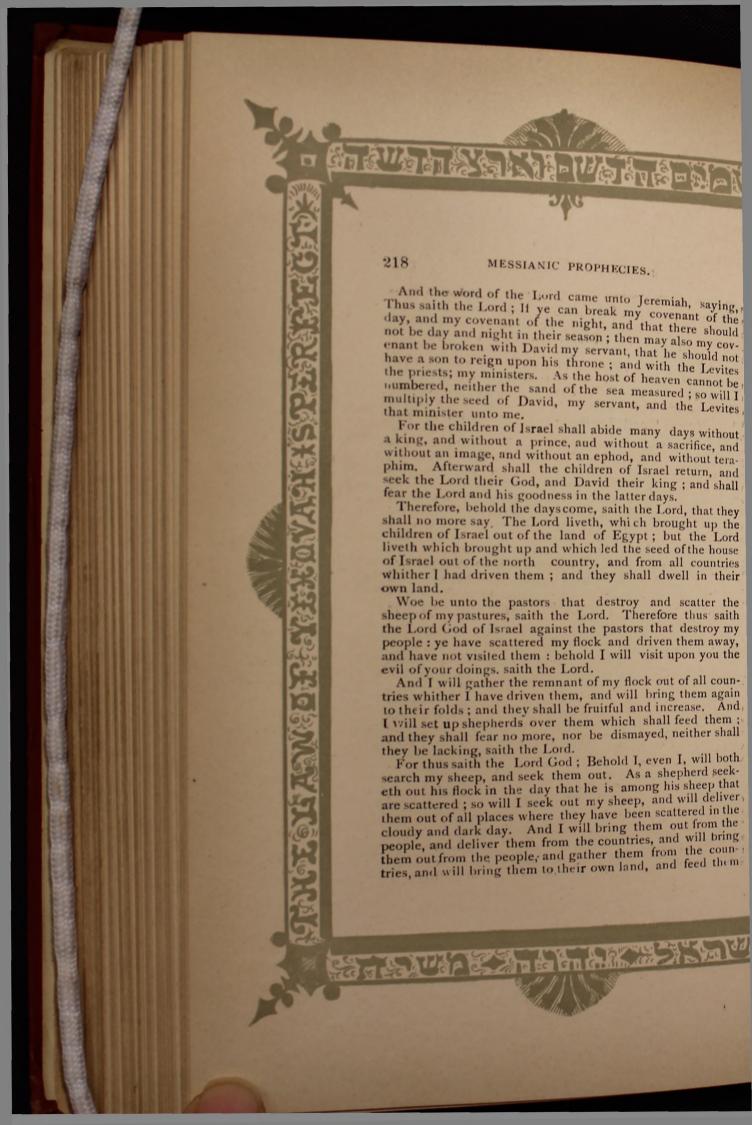
The word of the Lord came unto me again, saying, What mean ye, that ye use this proverb concerning the land of Is rael, saying, The fathers have eaten sour grapes, and the children's teeth are set on edge? As I live, saith the Lord God, you shall not have occasion any more to use this proverb in Israel.

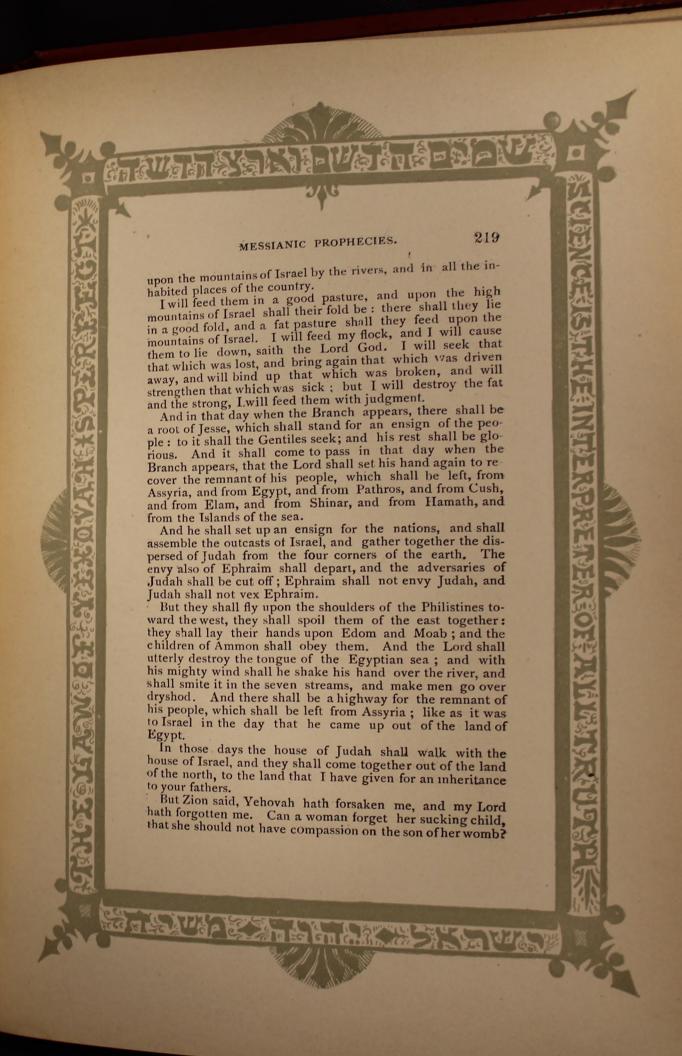
Yet say ye, Why? doth not the son bear the iniquity of his father? When the son hath done that which is lawful and right, and hath kept all my statues, and hath done them, he shall surely live. The soul that sinneth, it shall die. The son shall not bear the iniquity of the father, neither shall the father bear the iniquity of the son; the righteousness of the righteous shall be upon him, and the wickedness of the wicked shall be upon him.

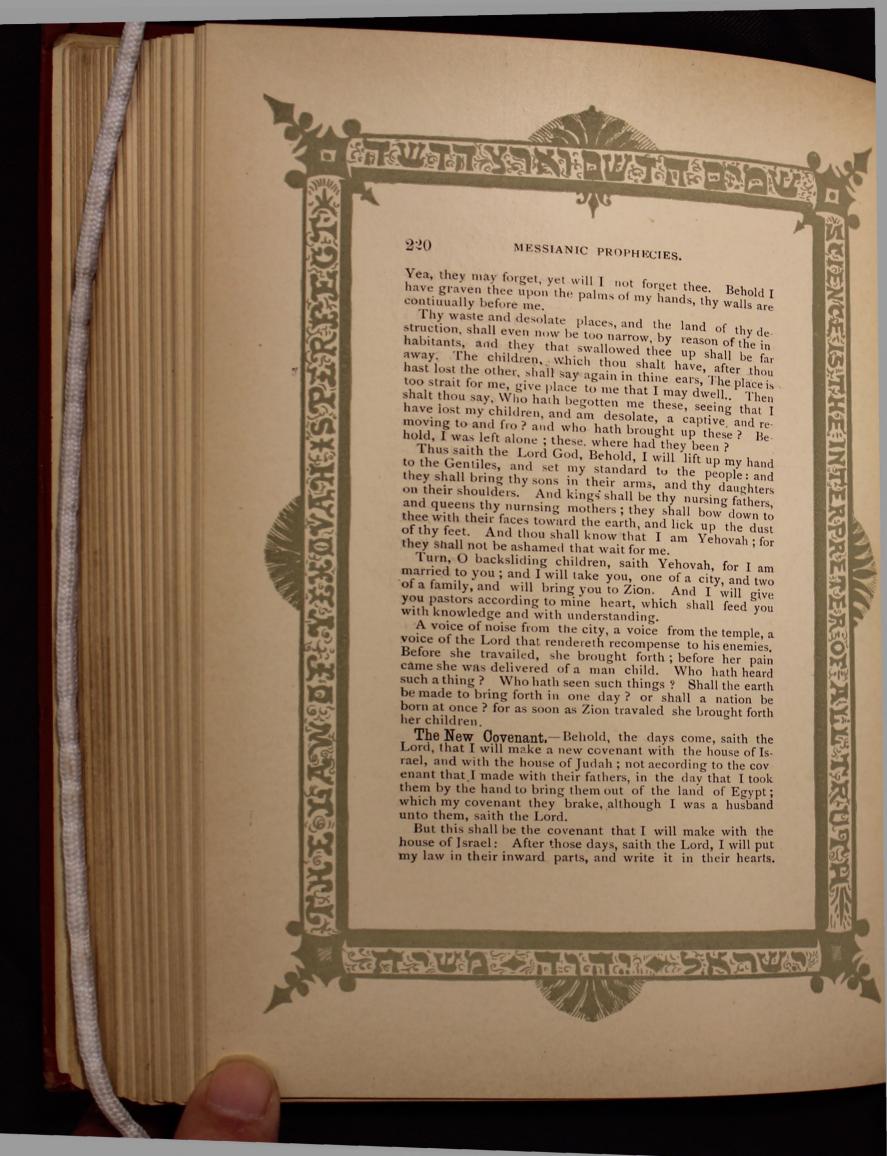
But if the wicked will turn from all his sins that he hath committed, and keep all my statutes, and do that which is lawful and right, he shall surely live, he shall not die. All his transgressions that he hath committed, they shall not be mentioned unto him; in his righteousness that he hath done he shall live.

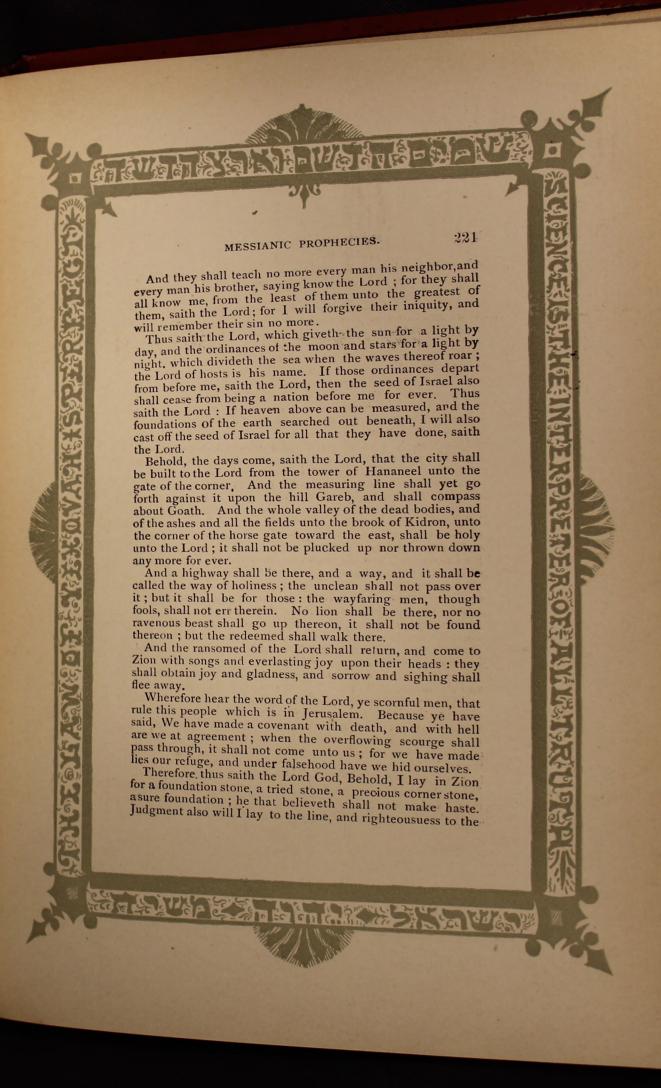
The Gathered Tribes.—Thus saith Yehovah, the God of Israel, I will cause the captivity of Judah and the captivity of Israel to return, and will build them as at the first. Again in this place, which is desolate and without man and without beast, and in all the cities thereof, shall be a habitation of shepherds, causing their flocks to lie down. Behold the days come, saith the Lord of Hosts, that I will perform that good thing which I have promised to the house of Israel and to the house of Judah. In those days, and at that time, I will cause the Branch of righteousness to grow up unto David, and he shall execute judgment and righteousness in the land.

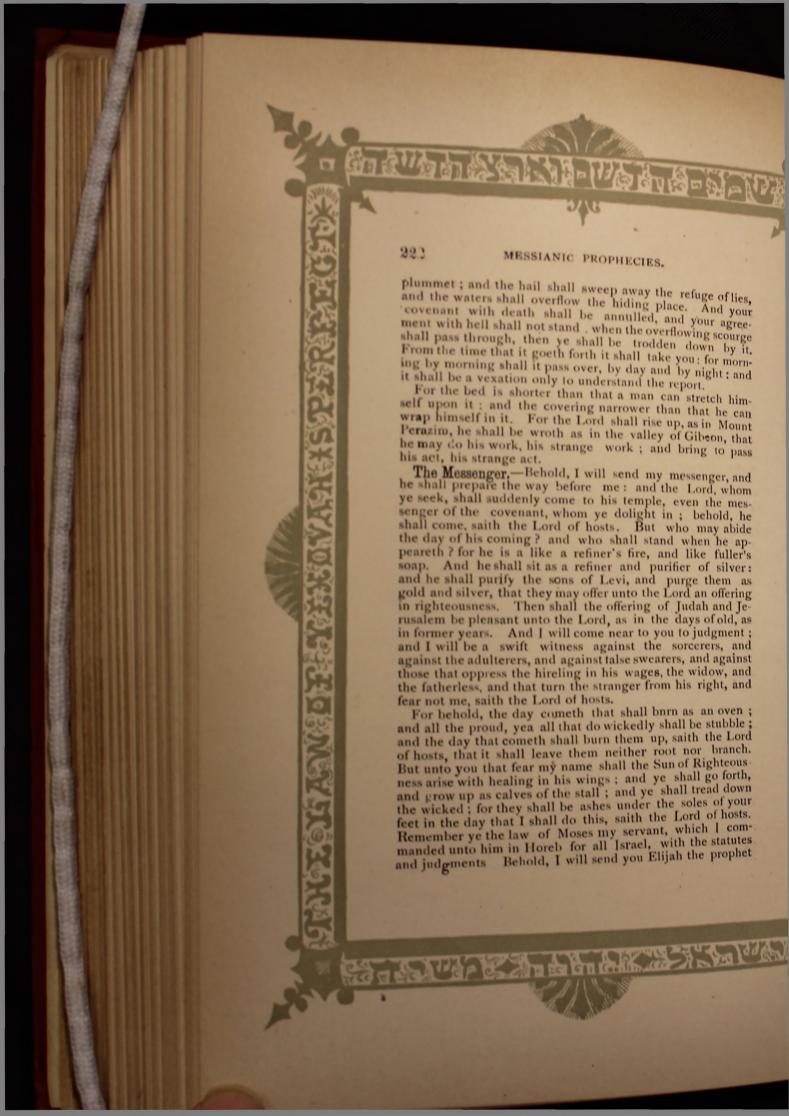
In those days shall Judah be saved, and Jerusalem shall dwell safely; and this is the name wherewith she shall be called, the Lord our Righteousness. For thus saith the Lord; There shall not be cut off from David a man to sit upon the throne of the house of Israel; neither shall the priests the Levites want a man before me to offer burnt offerings, to kindle meat offerings, and sacrifice continually.

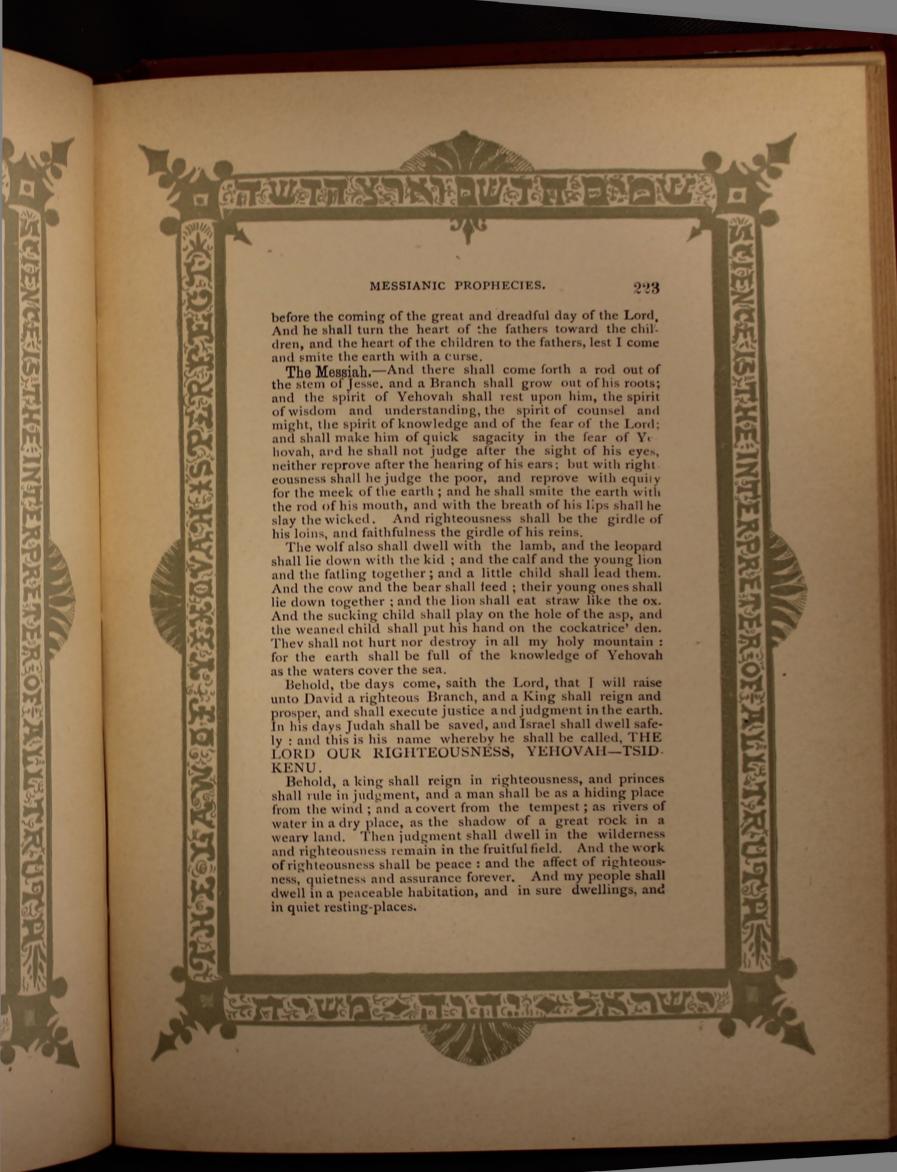


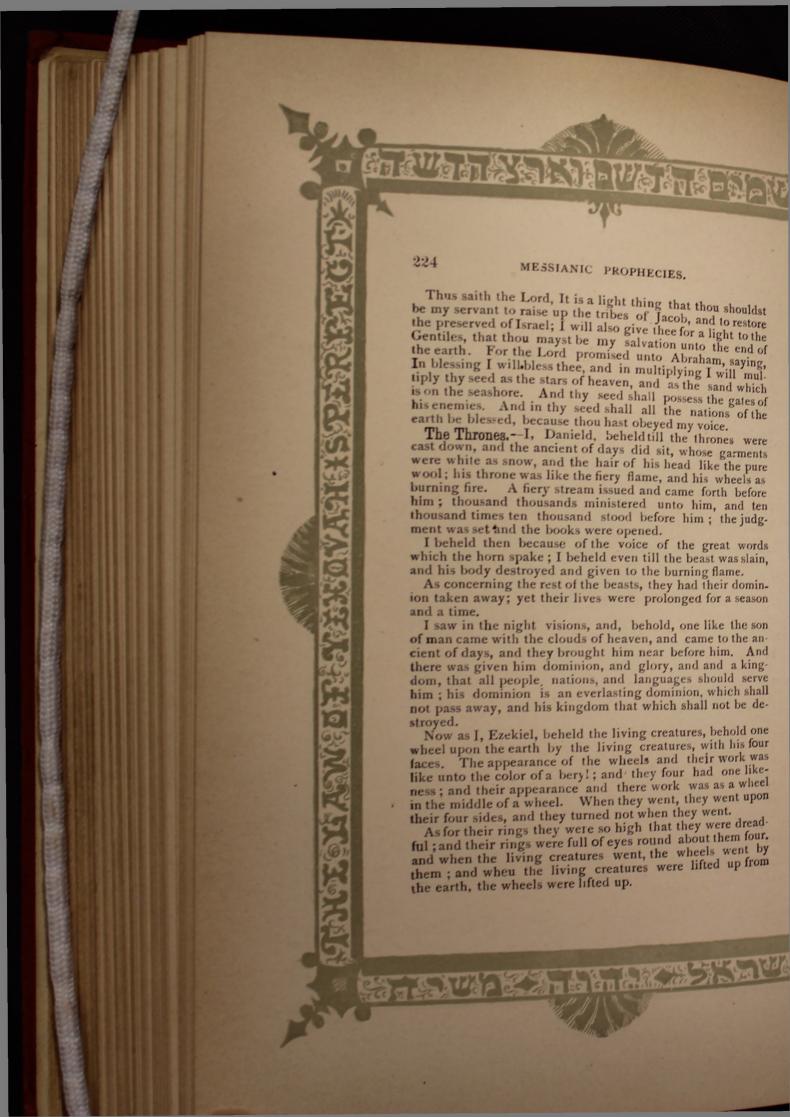


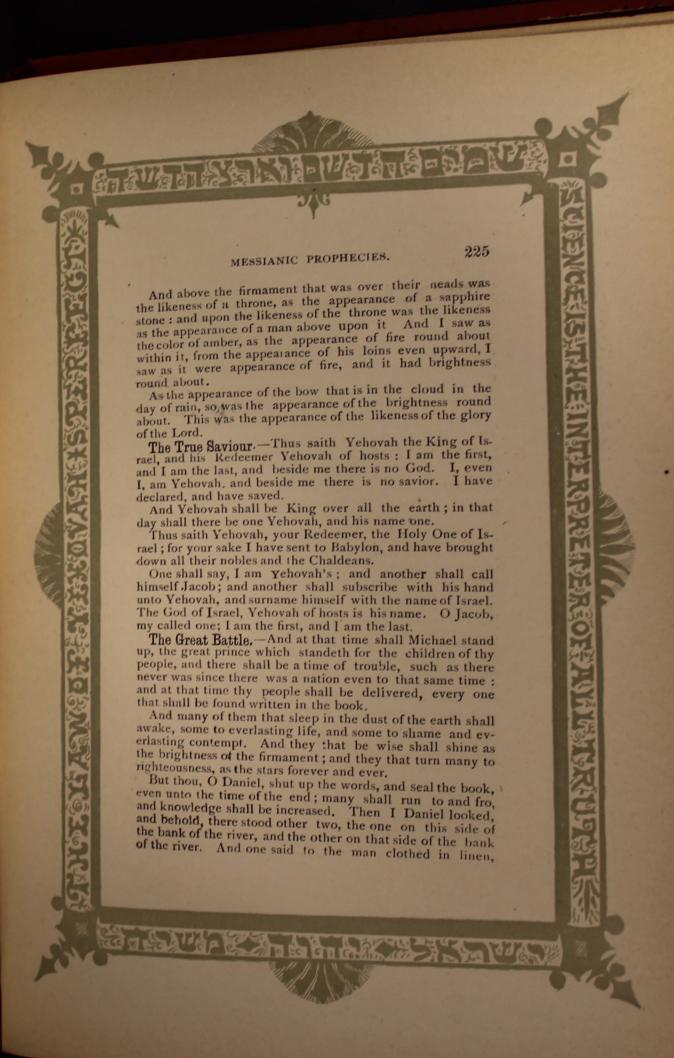


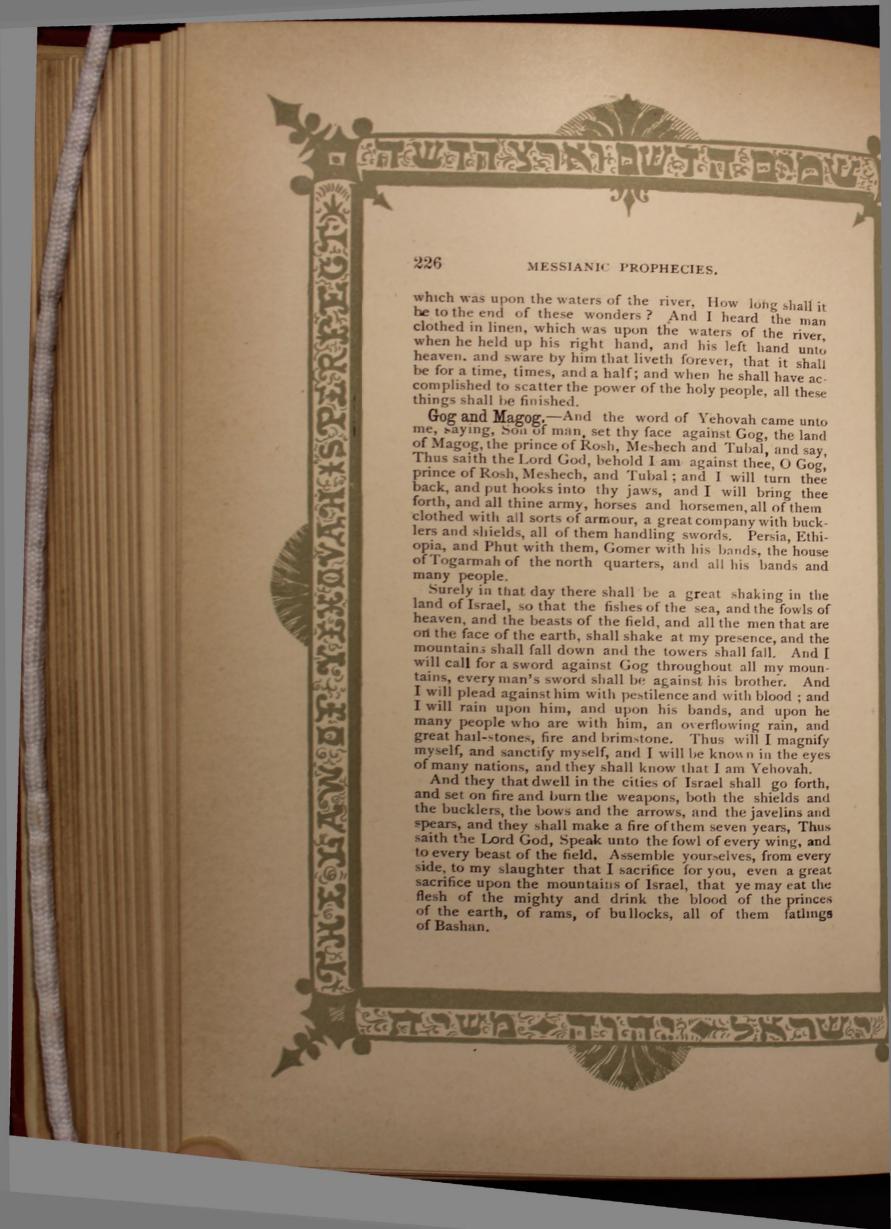














MESSIANIC PROPHECIES.

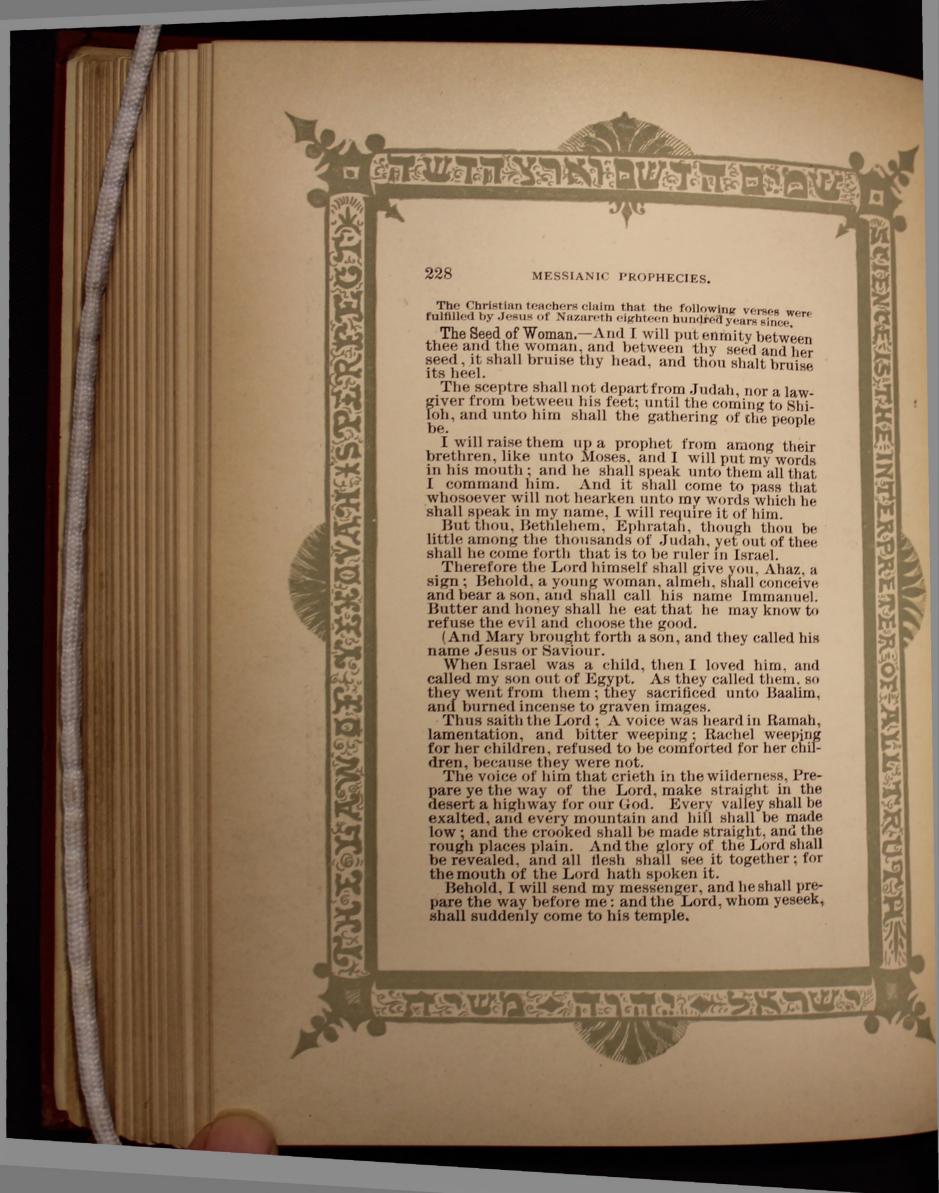
The Battle at Jerusalem. For Yehovah will gather all nations against Jerusalem to battle, and the city shall be taken, and the houses rifled, and the women ravished, and half of the city shall go forth into captivity, and the residue of the people shall not be cut off from the city. Then shall Yehovah go forth, and fight against those nations, as when he fought in the day of battle. And his feet shall stand in that day upon the mount of Olives, which is before Jerusalem on the east, and the mount of Olives shall cleave in the midst thereof towards the east,, and towards the west, and there shall be a great valley, and half of the mountain shall remove toward the north, and half of it toward the south. And ye shall flee to the valley of the mountains; for the valley of the mountains shall reach unto Azal; yea, ye shall flee, like as ye fled before the earthquake in the days of Uzziah king of Judah: and the Yehovah my God shall come, and all the saints with thee.

And it shall come to pass in that day, that it shall be evenly light over the parts of the earth. And living waters shall go out from Jerusalem; half of them toward the Eastern sea, and half of them toward the hinder sea; in summer

and in winter it shall be.

And the land shall be turned as a plain from Geba to Rimmon south of Jerusalem; and it shall be lifted up, and inhabited in her place, from Benjamin's gate unto the place of the first gate, unto the corner gate, and from the tower of Hananeel unto the king's winepresses. And the men shall dwell in it, and there shall be no more utter destruction: but Jerusalem shall be safely inhabited. And this shall be the plague wherewith the Lord will smite all the people that have fought against Jerusalem; their flesh shall consume away while they stand npon their feet, and their eyes shall consume away in their holes, and their tongues shall consume away in their mouth. And it shall come to pass in that day, that a great tumult from the Lord shall be among them; and they shall lay hold everyone on the hand of his neighbor, and his hand shall rise up against the hand of his neighbor. And Judah also shall fight at Jerusalem; and the wealth of all the heathen round about shall be gathered together, gold and silver, and apparel in great abundance.

And it shall come to pass that everyone that is left of all the nations which came against Jerusalem, shall even go up from year to year to worship the Kintne Yehovah of hosts, and to keep the feast of the tabernacles.



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Behold I will send you Eijah the prophet before the coming of that great and dreadful day of Yeho-

And I will shake all nations, and the desire of all nations shall come: and I will fill this house with glory, saith the Lord of hosts.

Behold my servant whom I uphold; mine elect, in whom my soul delighteth; I have put my spirit upon him: he shall bring forth judgment to the Gentiles. He shall not cry, nor lift up, nor cause his voice to be heard in the street. A bruised reed shall he not break, and the smoking flax shall he not quench; he shall bring forth judgment unto truth.

The spirit of the Lord God is upon me, because Yehovah hath anointed me to preach good tidings to the meek, he hath sent me to bind up the brokenhearted, to proclaim liberty to the captives and the opening of the prisons to them that are bound.

Then the eyes of the blind shall be opened, and the ears of the deaf shall be unstopped. Then shall the lame man leap as a hart, and the tongue of the dumb

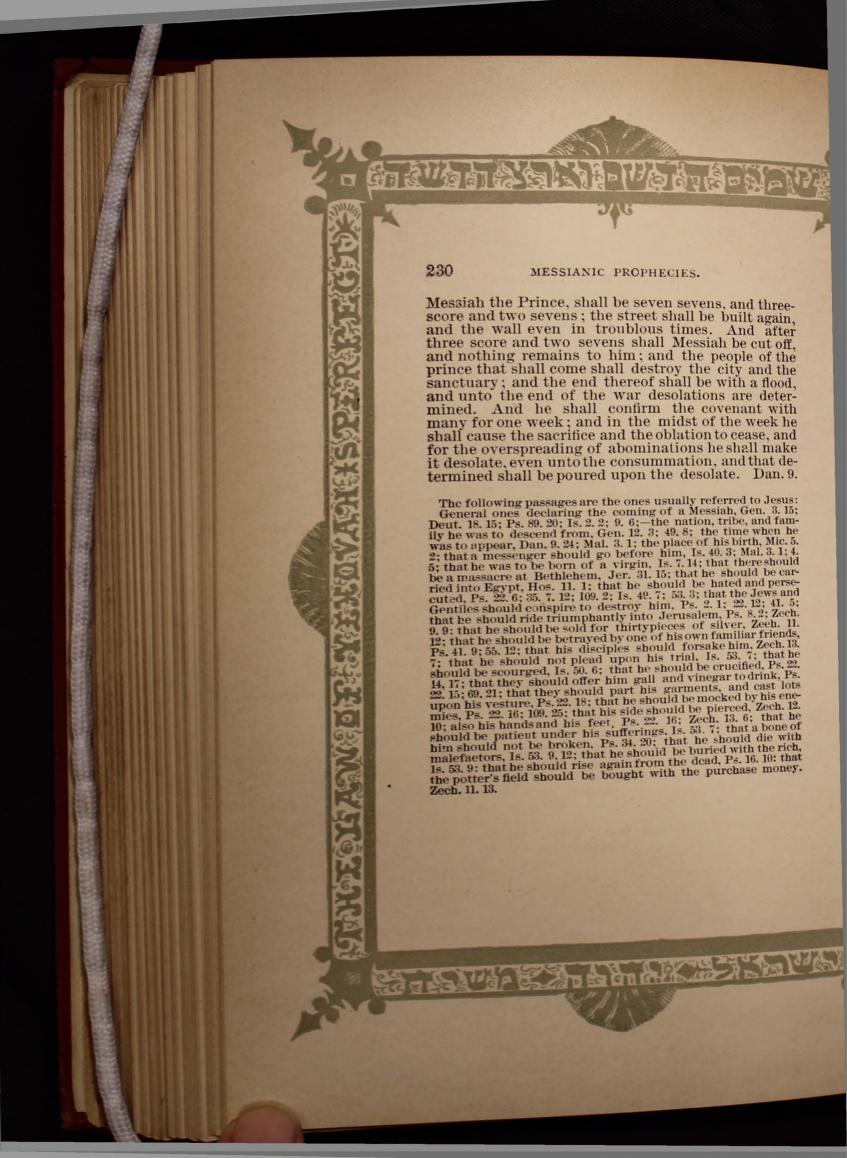
sing.

Many are the afflictions of the righteous: but the Lord delivereth him out of them; he keepeth all his bones, not one of them is broken. They pierced my hands and feet, they part my garments among them and cast lots upon my vesture,

For thou wilt not leave my soul in hell, neither wilt thou suffer thine holy one to see corruption. Thou wilt show me the path of life; in thy presence is fulness of joy; at thy right hand there are pleasures forever more.

Rejoice greatly, O daughter of Zion; shout, O daughter of Jerusalem; behold, thy king cometh unto the: he is just, and having salvation; lowly, and riding upon an ass, and upon a colt the foal of an ass.

Seventy sevens are determined upon thy people, and upon the holy city, to finish the transgression, and to make and end of sin, and to make reconciliation for iniquity, and to bring in everlasting righteousness, and to seal up the vision and prophecy, and to anoint the Most Holy. Know therefore, and understand, that from the going forth of the commandment to restore and to build Jerusalem, unto the

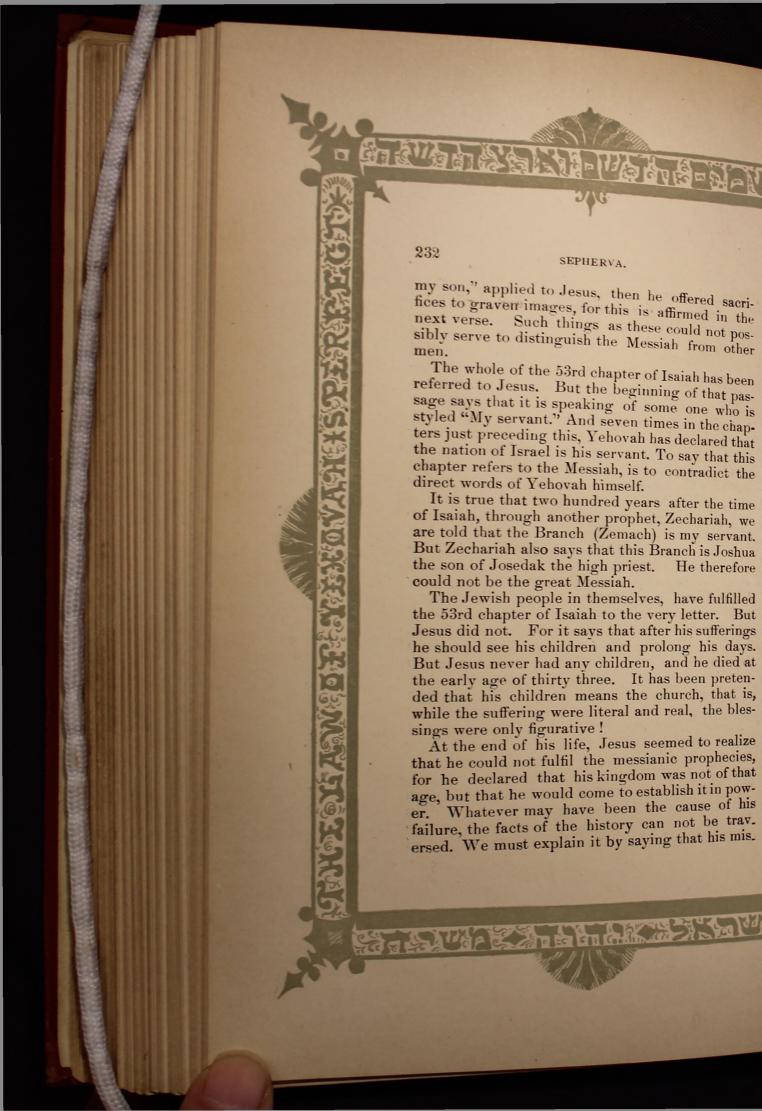


The Contrast.—By the side of the magnificent descriptions of the New Heavens and New Earth, the universal kingdom of happiness and peace, we have now placed the tragical pictures of sorrow and failure which the Christian world has applied to Jesus of Nazareth, and his career eighteen hundred years since. We have to inquire whether the fulfilment of such a very small proportion of the prophecies was sufficient to establish his claim to the Messiahship at that time; and also to consider

the question of a second coming.

The fulfilled passages number less than the one sixth part of the whole messianic prophecies. For every verse claimed as fulfilled, there are five verses which no one would have the hardihood to But the case claim were in any manner fulfilled. is much worse than the mere comparison of numbers would indicate. For not one of these claimed verses contains the promise of any thing good for mankind. A large part of them refer to such persecutions as have been the common lot of those who attempted to reform the institutions of men. They were not one whit more true of Jesus than they were of a hundred other men. No one can read history and remain blind to this fact.

And where the prophecies seemed to be definite and circumstantial, examination shows they were To name a child Jesus, is not to fulfil a passage which says he shall be called Emanuel, for the two names are not equivalents, they do not mean the same thing at all. The Roman soldiers cast lots upon his vesture, but so they did upon other criminals which they executed. They gave him vinegar to drink. That also was their practice with others. If the passage "Out of Egypt I called



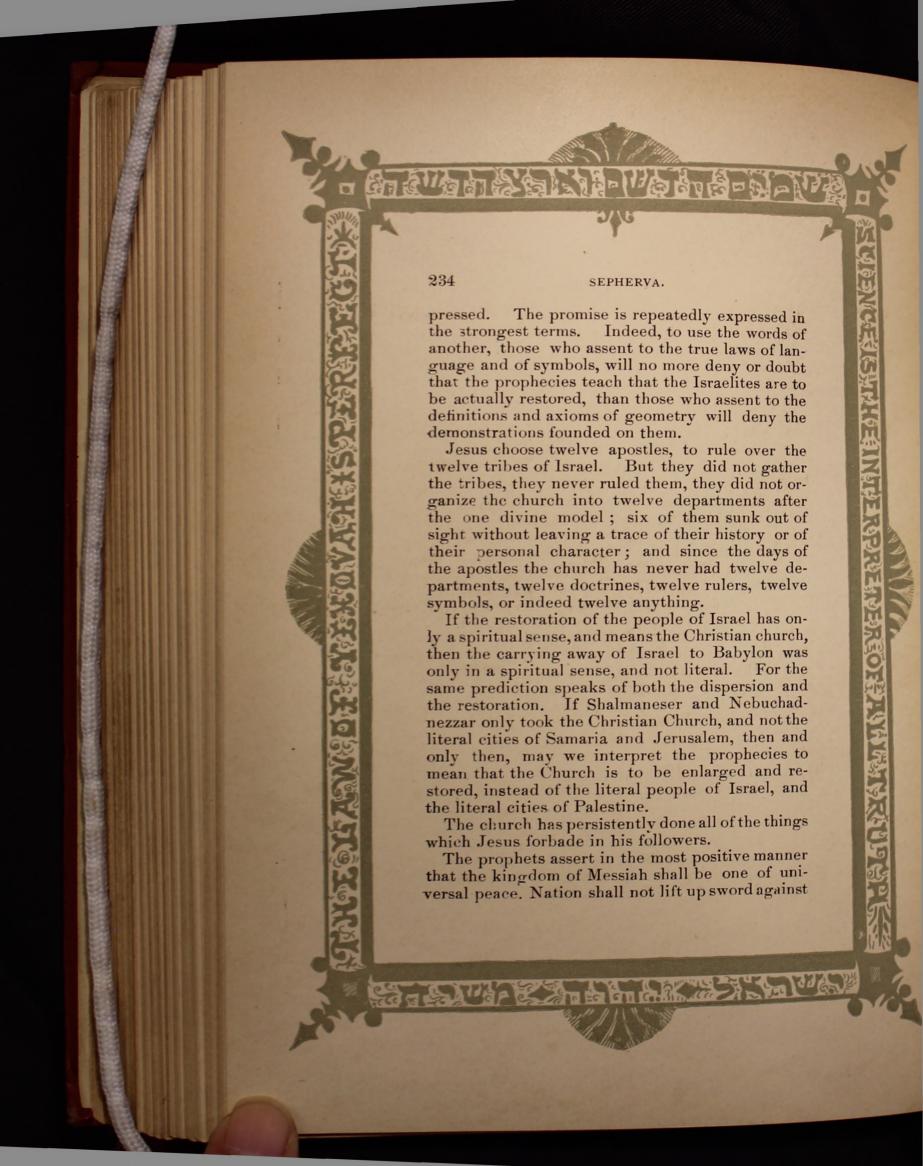
sion was to offer the kingdom to that generation before their long dispersion, but that the Jewish mind could not then accept the terms and conditions which he proposed. The Jews could not see that a disconnected collection of moral precepts, and the healing of a few sick people, would deliver them from the hard yoke of Roman power, and from the multiform evils that cursed their social and political life.

And so, guided by fanatical bigotry and blind hate, they put him to the horrible death of crucifixion. He died because he was true to the spiritual light within him, a light which could not penetrate or dissipate the darkness of that age.

A little further on we shall consider the question of a Second Coming. We must here notice how Christians have turned aside the obvious meaning of the prophets. For they claim that the prophecies apply to the Church; that it is the true Israel.

How false this claim has always been, is seen from the direct words of Yehovah. For he says that in the day that the Messiah appears, in that very age, and not eighteen hundred years afterward, he will set forth his hand and gather the twelve tribes of Israel, the ten lost tribes as well as the tribes of Judah and Benjamin; and plant them forever in the land in which their fathers have dwelt, upon the mountains of Israel, and that he will there establish them as at the first, and that they shall no more be two nations, and they shall not again be plucked up, but shall dwell in safety forever. If this language has not a literal meaning, then it would be impossible for God to find words in the whole compass of human language, by which a literal meaning could be ex-

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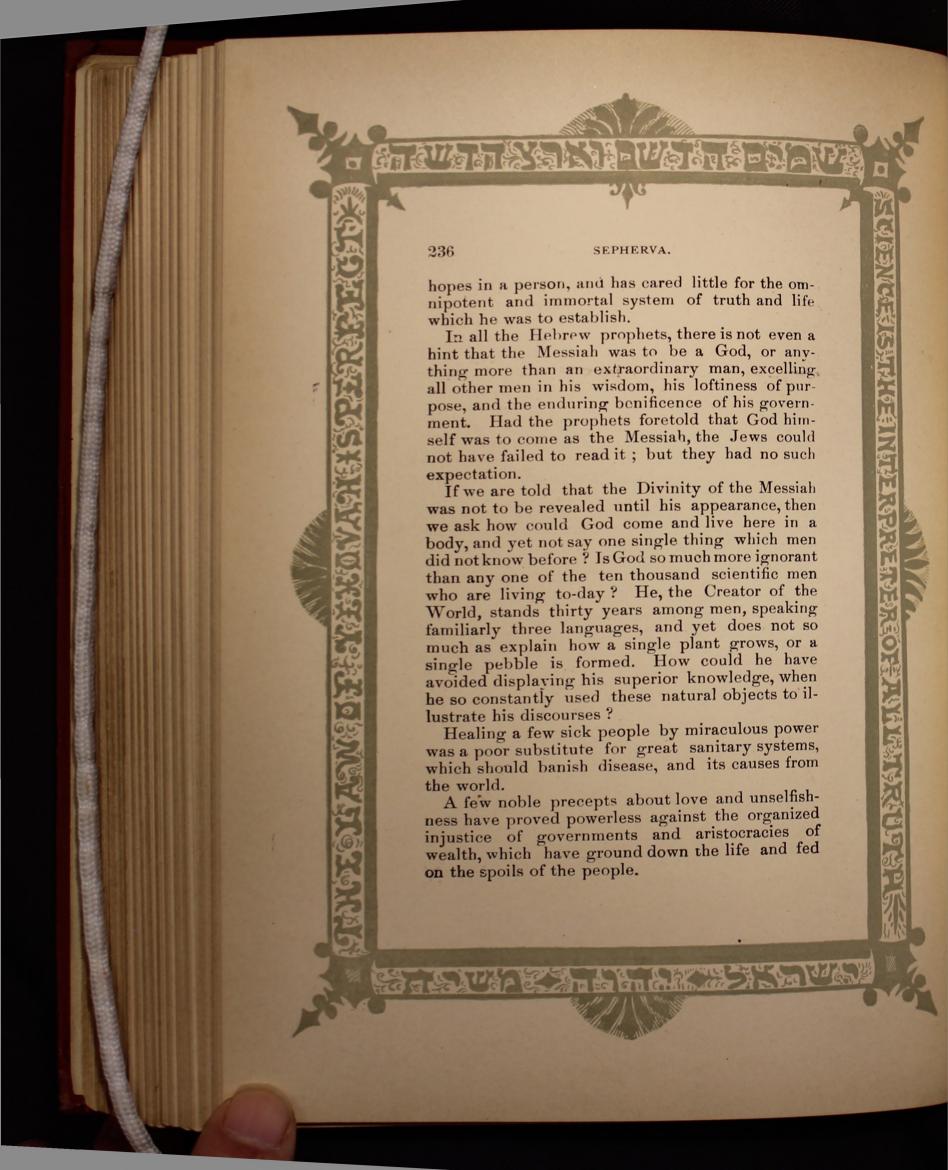


nation, neither shall they learn war any more. But every Christian Nation, without exception, has engaged in repeated wars, and its priests have sanctioned these wars. Christian nations still fight with the skill of demons, and Christian sects still quarrel with malignant hate, in this year after Christ 1881. In the light of these facts, to call the Christian Church the kingdom of the Messiah, is to utter an atrocious falsehood.

Nor does the Christian religion, as explained by its teachers, contain the foundations upon which the Kingdom is to be laid. For it does not contain any provisions, or principles, or laws, which could be formulated into a system and applied in a literal kingdom as its constitution. All things must be made new. The confused Babel of Christian sects can not be patched up into the New Jerusalem.

It is as easy to distinguish between the figurative and the literal language of the prophets, as it is to distinguish these in the common speech of every day life. When the prophets speak of a great day of burning, against the wicked, they no more mean a fire like that of wood and coal, than when we now speak of "burning hate," "fiery passions," "getting into hot water." The figure of speech means that a force would be used sufficient to destroy the evil referred to.

The True Messiah.—The prophets have a great deal to say about the coming Kingdom, and but a very little to say about the King who was to be its great founder. And we have a right to think that this shows that the kingdom was much more important than the king. In contradiction to the prophets, the Christain world centered all of its



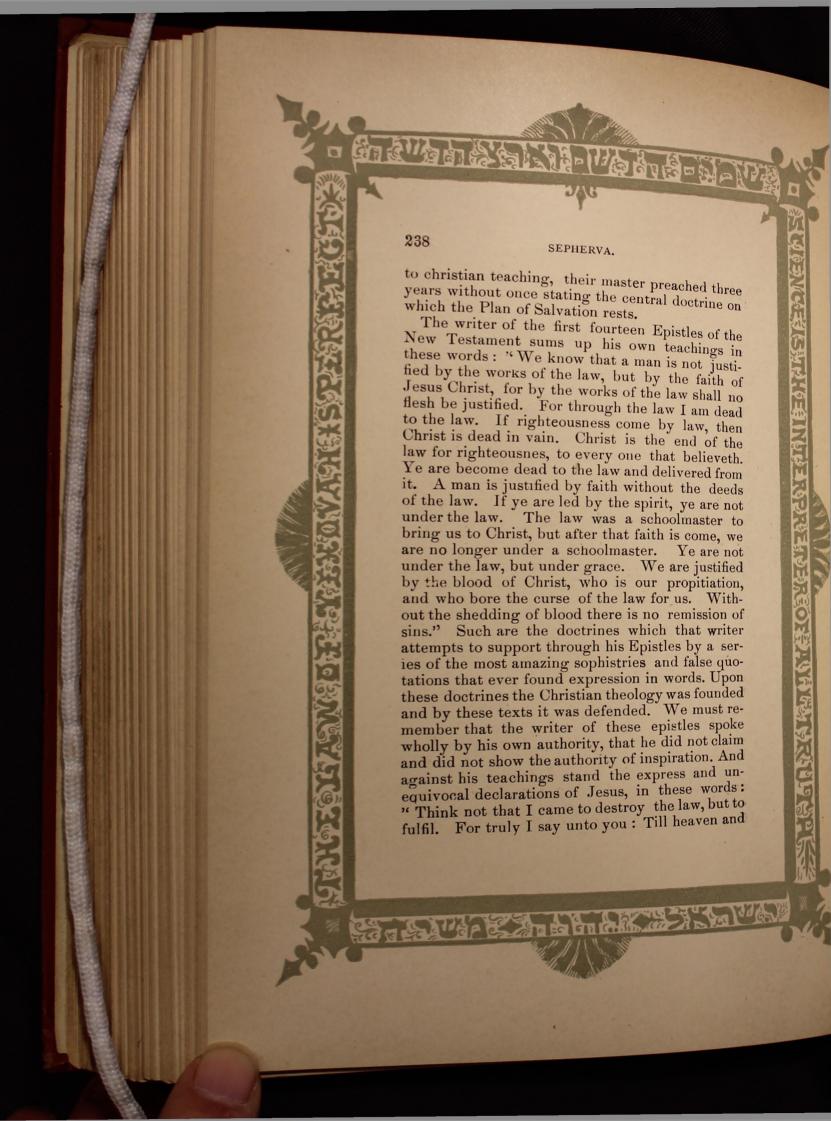
The command to be perfect, even as your Father in heaven is perfect, was a poor substitute for a system of integral education, which should secure to every child the glory of a mind and body trained and developed in perfect symmetry.

To bless little children, and say "Of such is the kingdom of Heaven," seems like a dreadful mockery in a Christian civilization which allows one half of the children to die before the age of five years, from easily preventible causes of disease.

The spasm of conversion and the hope of escaping hell, was but a sad substitute for the spiritual unity of mankind and the conscious and perpetual communion with the angelic world. The scope of religion is immensely broader and deeper than the

Christian definition and example.

No system of doctrines and of life was formulated by Jesus. Cut off while his mission was scarcely begun, the work was left to other hands. Christianity was molded into form by monastic teachers, who substituted impractical and false dogmas for the simple precepts of their professed master. These impostors put forth the dogmas expressed in the phrases "Saved by the blood of Christ," "Justified by Faith," "By the deeds of the law no flesh shall be justified," "Vicarious Atonement," "Christ our substitute," "Imputed Righteousness," "Mystery of Godliness." Not one of these formed any part of the teachings of Jesus. Not one of them belonged to the character of that Messiah who was foretold by the prophets. There is not a single passage in the old Testament which says that the Messiah should be offered as a sacrifice for the sins of men, and that through this substitution they were to gain admittance to heaven. According



earth pass away, not one jot or tittle shall pass from the law, till all things be accomplished. Whosoever shall do and and teach the commandments of the law, shall be called great in the kingdom of heaven. If thou wilt have eternal life, obey the commandments given by Moses, these do and thou shalt live. Ye must obey the law more fully and more in its spirit, then even the strict Pharisees.

It is impossible to reconcile these teachings of Jesus with those of the Epistles. For a law can not be destroyed or set aside by being obeyed. The law of seeing requires that light should enter the eye. We do not set the law aside by going into a room which is full of light. We have obeyed the law, but it still remains in force. The spiritual laws are as much a part of man's spirit, as the laws of vision are inseparable from the eye. Take away the laws, and our spirits would have neither action, power, or even existence.

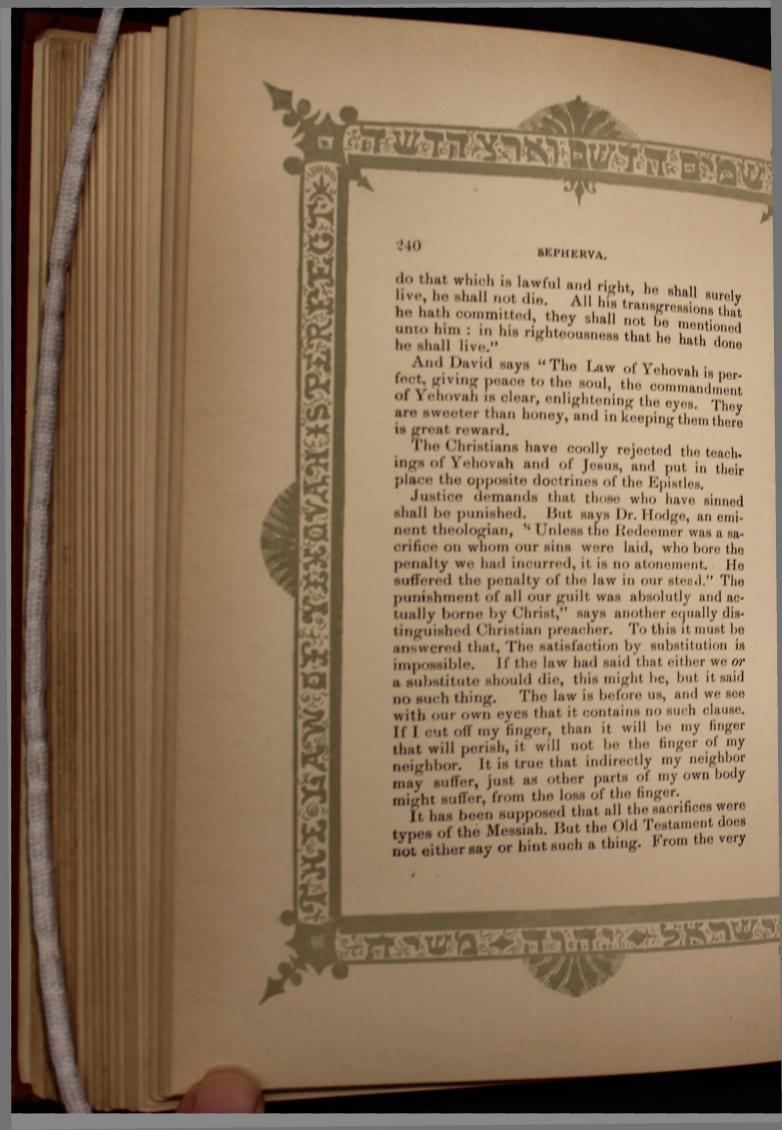
But long before the time of Jesus, we find that Yehovah himself had declared the truth, through Ezekiel, in these words:

"Yet say ye, Why? doth not the son bear the

iniquity of the father?

When the son hath done that which is lawful and right and hath kept all my statutes, and hath done them, he shall surely live. The soul that sinneth, it shall die. The son shall not bear the iniquity of the father, neither shall the father bear the iniquity of the son: the righteousness of the righteous shall be upon him, and the wickedness of the wicked shall be upon him.

But if the wicked will turn from all his sins that he hath committed, and keep all my statutes, and

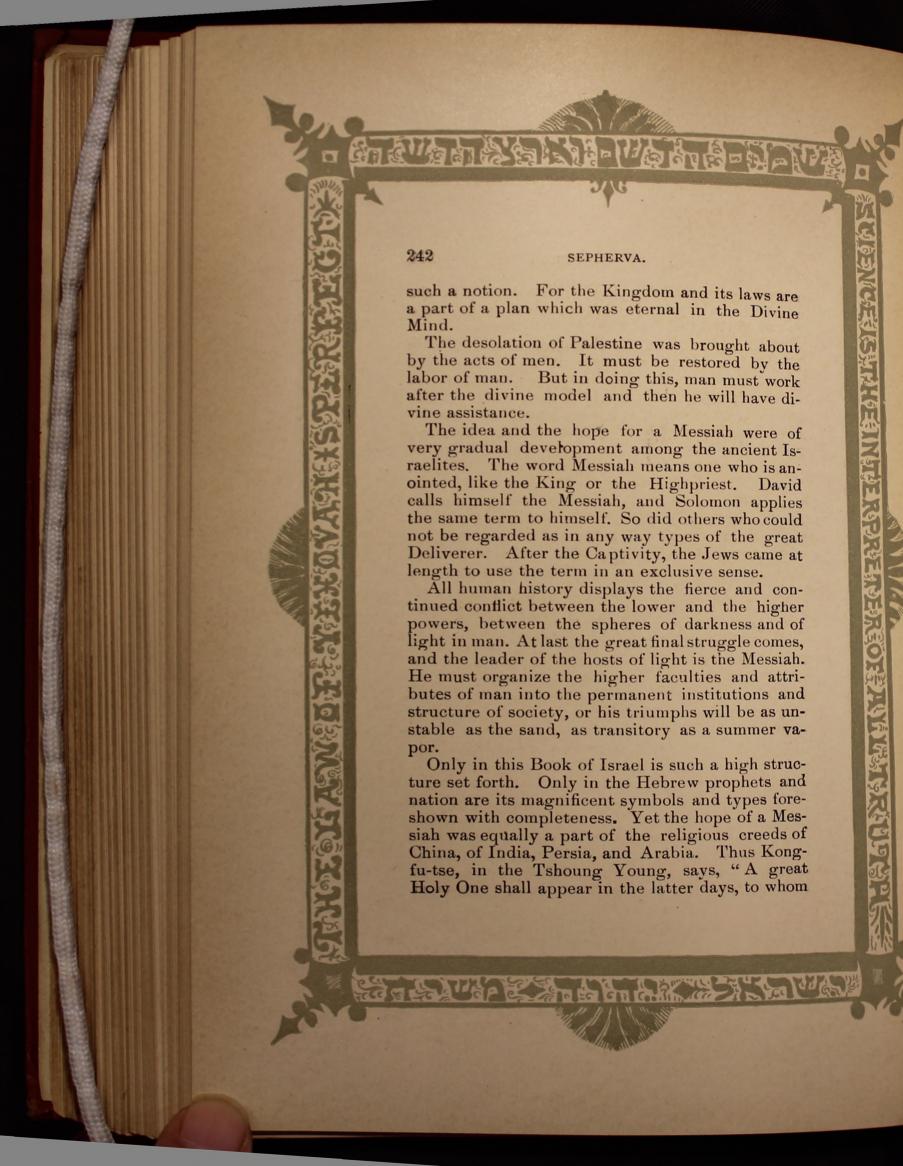


nature of sacrifices it has been proved, in the ninth chapter of this Book, that the Messiah could not be a sacrifice.

We must judge of the character of the Messiah by the nature of the government which he was to establish. It involves the unfolding of new forms of knowledge as the basis of a new life. It has been falsely taught that Love was the one distinguishing element in his character. But Yehovah himself has declared differently. Through Isaiah he names four intellectual qualities of the Messiah. These are Wisdom, Sagacity, Counsel, and Knowledge. With these he mentions only one quality of Love or feeling, and this is the fear of Yehovah, with one of Will, the spirit of might or strength.

A perfect character must have as much wisdom as love, and as much of will as of either the others. The three are equal parts of the mind, bound together by inseparable laws of action and dependence.

The expectation of the Jews at the present time, (1880) is in harmony with the teachings of the prophets, and with the deductions of science. In the words of a leading Jewish Journal 'The Messiah is to be, according to our belief, but a man of marvellous intelligence and power of influence and organization. There is no reason why the prophecies, in which the vast majority of us devoutly believe, may not be fulfilled in an apparently natural and consequent manner." The prophets do not predict the exertion of any miracuious power in connection with the establishment of the kingdom. If it required a miracle to introduce it, then a perpetual miracle would be required to sustain its activities. The truth is far from



nations look forward as fading flowers thirst for rain. His all penetrating spirit, his prudence, virtues and counsel, shall govern the world without the prestige of power. The nations seeing him will prostrate themselves before him; and hearing him they shall be convinced, and with one voice praise his works. China shall see the rays of his glory approaching, which shall penetrate even to the savage nations, and to the unapproachable wilderness."

In the Persian Zend Avesta, we find Zarathustra saying, "In the last time a man shall appear who will adorn the world with religion and righteousness, Kings shall obey him, and all his undertakings shall prosper. He shall give victory to true religion. In his time rest and peace shall prevail, all dissensions cease, and all grievances be done away.

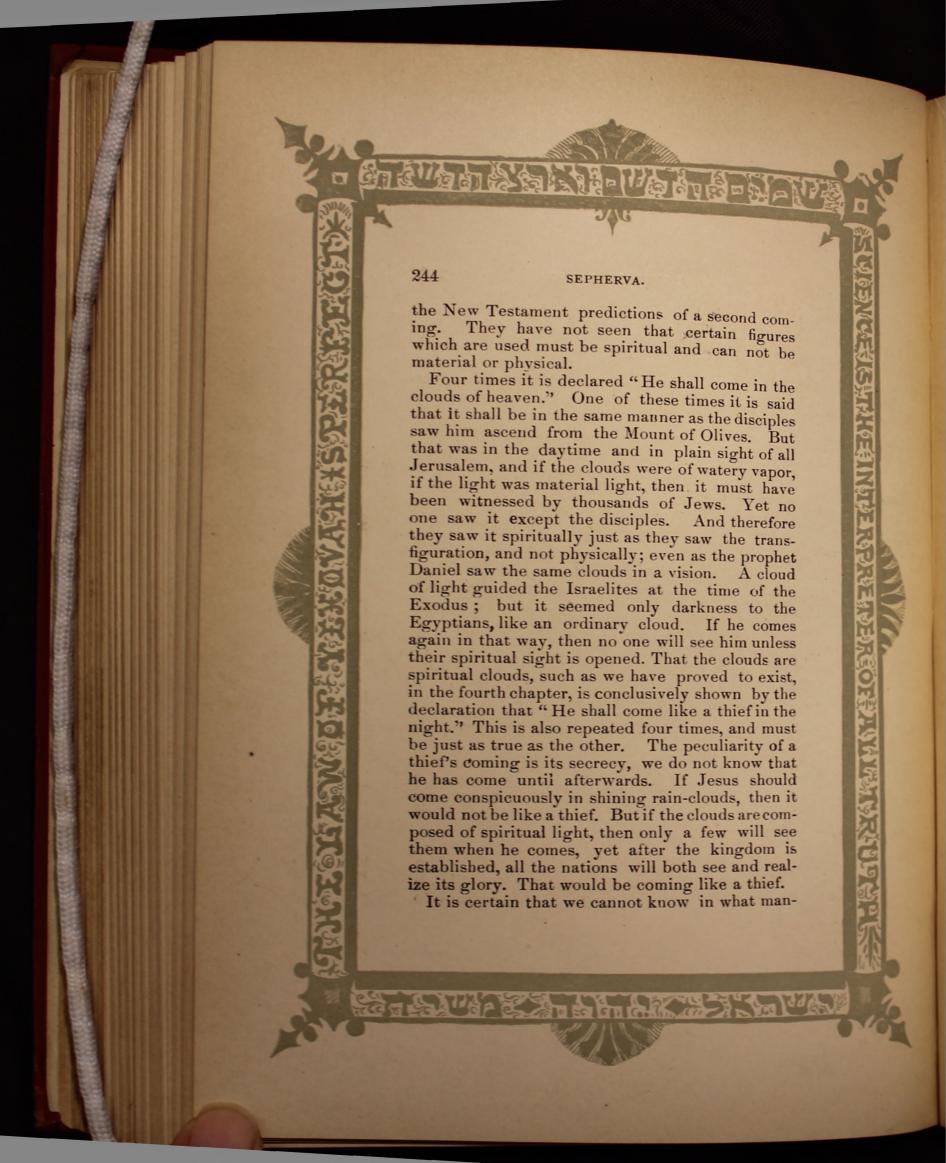
The Bhuddists of India believe that the next coming will be an incarnation of Bhudda, the same

person who founded their religion.

The Moslems expect that the Messiah, El Medi, will appear in 1882, the 1260th year of the Hegira. Then, or in 1885, the false prophet, El Dajal, will appear to oppose him, but will be overcome.

A Second Coming. — The Hebrew prophets say nothing whatever about a second coming of the Messiah, and the Christian expectations concerning it are based wholly upon the New Testament predictions.

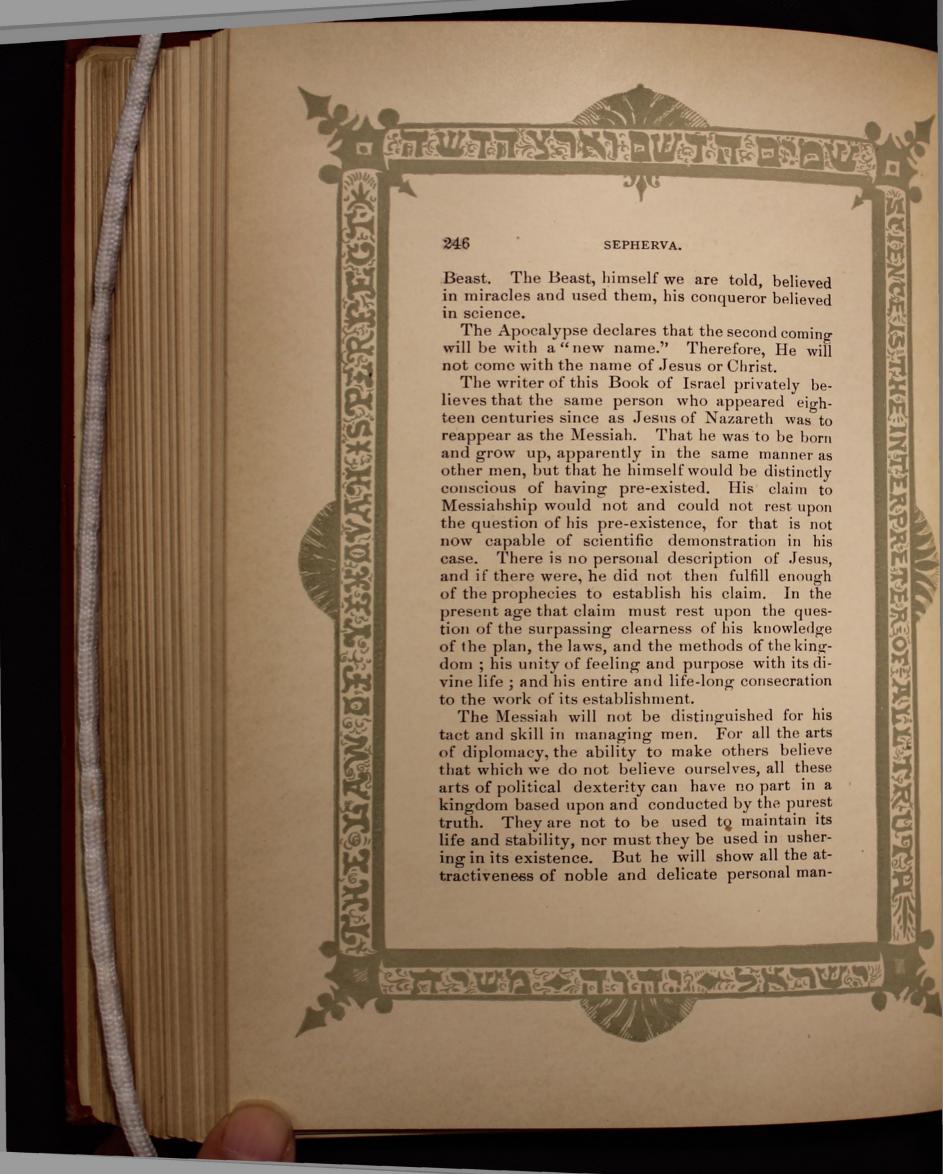
While Christians accuse the ancient Jews of falsely understanding the prophecies of the first coming to be all literal and material, the Christians themselves do the same thing in regard to



ner the kingdom will come unless we know its plan, its constitution, and its methods of life. Without this knowledge we can not know what means are necessary for its establishment.

We have proved in the eighth chapter that the plan and laws of that kingdom are now, and always have been, a part of the constitution of man, and that they can only be learned by the methods of science. They are not to be revealed and taught and applied by a miracle. A great spiritual growth, carried on now through long centuries, has prepared the minds of multitudes to work in that new creation. Its central impulse and sustaining power is spiritual, its external form is physical and literal.

That the second coming is to be in the name and authority of Science, is proved by the direct and positive testimony of John in the Apocalypse. Under the first seal he saw one come forth on a white horse, the symbol of pure reason in a living His name (or Noma, law) was the Logos. Three hundred years before the time of John's vision, the writings of the Greek Plato had fixed the meaning of this word Logos. It signified the divine Reason and Law, incarnated in men, and embodied in the works of creation. In modern times, this meaning has been still further intensified. The word logos forms the syllable logy, in the termination of English words, and is thus used in naming the many subdivisions of modern sci-For example, the Greek word Ge, means earth, and Logos means science. United they form the word Geology, meaning science of the earth. It was in this name that the Rider on the white horse fought and won the great battle with the



ners, the outward index of that pure heart and clear intellect that must belong to a Sun of Right-

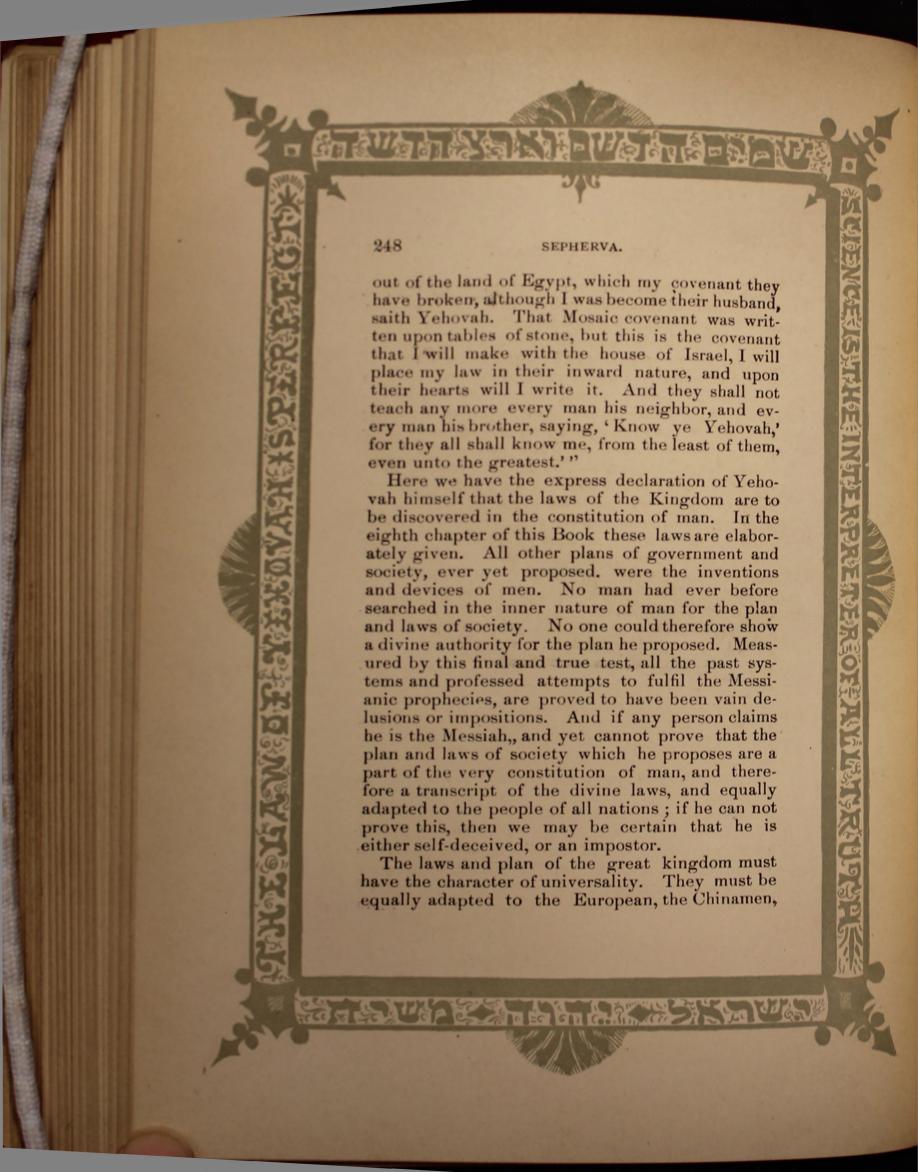
His authority will be the truth itself, which is greater than any person. He will not seek to secure the worship and adulation of the world. His consciousness of personal supremacy will be entirely subordinate to the great work of building the institutions of the new life, and securing their perpetual observance.

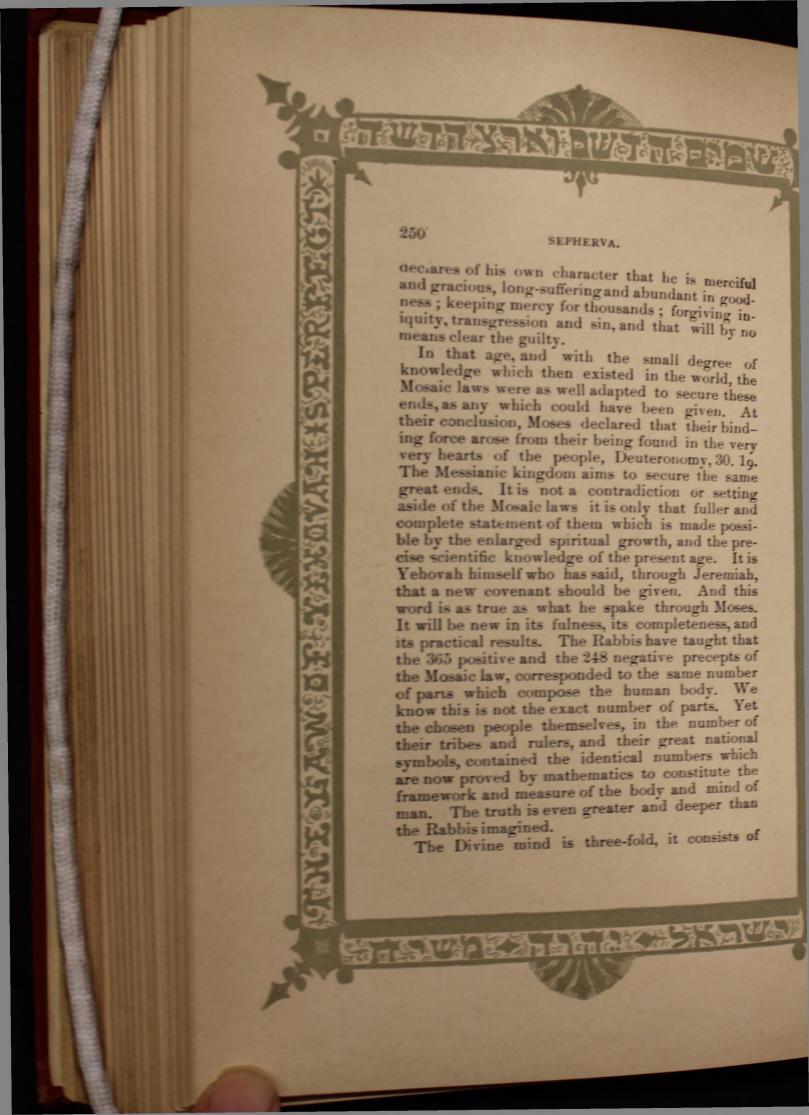
The New Covenant.—The Bible gives a very careful description of the kingdom, and represents it by types which have mathematical exactness. And Yehovah tells us, through, Jeremiah, where the laws of the kingdom may be found, as we see the following page group:

in the following passages:

"Thus saith Yehovah, 'Behold I will bring back again the captivity of my people Israel and Judah and will cause them to return to the land of their fathers, and they shall possess it. And the city shall be rebuilt upon her own heap of ruins, and the palace shall be inhabited after its ancient manner. Behold I will bring the remnants of Israel from the north country, and I will gather them from the farthest ends of the earth. With weeping shall they come, and with supplications will I bring them in. I will lead them by brooks of water in a straight way, where on they shall not stumble, for I am become a father to Israel, and Ephraim is my first-born.

When that day comes, saith Yehovah, I will make with the house of Israel and with the house of Judah, a new Covenant. Not like the covenant that I made with their fathers in the day that I took hold of them by their hand to bring them





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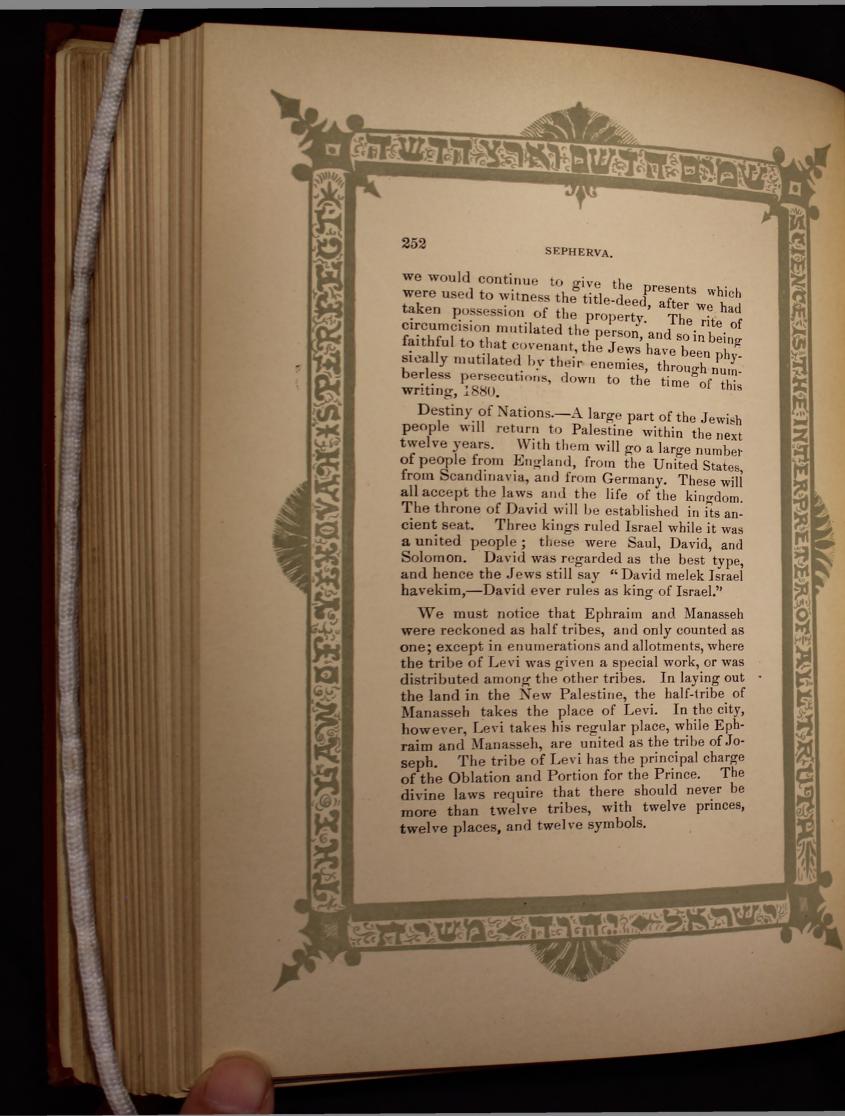
Wisdom, Love and Will, just as the human mind is constituted. We may be certain that this trinity of powers exists, for man is in the divine image, and these form the mind of man.

The nature of the Divine Mind fits it for a system of government with parts and officers like those best adapted to the wants of human beings. We must reason here from analogy, for the names of the divine rulers who are directly under Yehovah are not revealed in the Bible. The four angels, Michael, Phanuel, Gabriel, and Raphael, were and will be, especially interested in the establishment of the Kingdom of Israel.

We may believe that the Messiah was to be the person who is the masculine head of this Earth, of this division of the physical and moral universe. In this sense, he is a representative of Yehovah, with the duty of administering the divine government on the earth. We may be certain that he will never assume to be God himself; he will never claim or consent to receive divine honors. The spontaneous love and the intelligent obedience of the world will be given him, and his response will be in his unselfish devotion to all human interests.

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Rites of the Law.—In the ninth chapter the restoration of the sacrifices has been described. The rite of circumcision was a sign of the Covenant made with Abraham. That covenant engaged that the posterity of Abraham should forever inherit and occupy the land of Palestine, and that in them all nations of the earth should be blessed. When the Restoration of Israel takes place, and the Kingdom is set up, then that rite will be no longer required or be practiced, any more than



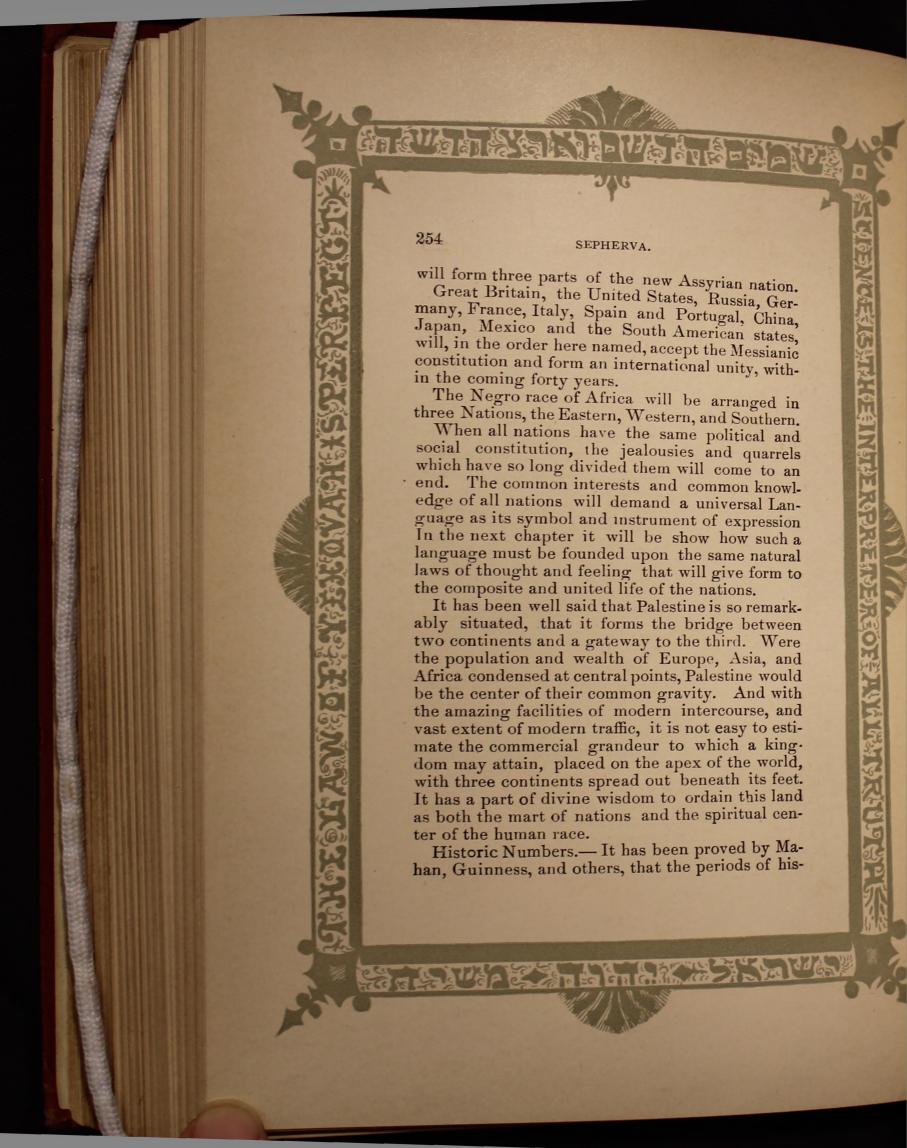
Both America and England will take a direct part in the restoration of Israel. This is indicated by Isaiah: Ho! land spreading wide the shadow of thy wings; (America) Go, as a swift messenger, to a people wonderful from the beginning hitherto, a nation expecting and hoping, and trampled under foot, whose lands the river have spoiled. And all the inhabitants of the world shall see the uplifting of the banner upon the mountains, and shall hear the sound of the trumpet. At that time shall be brought unto Yehovah a present of that pulled and torn people, to the place of the name of Yehovah of Hosts, the mount of Zion.

The children of Ishmael were also in twelve tribes. They also are children of promise and of the seed of Abraham, as well as their cousins, the Israelites. They have been equally taught to look for the Great Deliverer. Under the same political constitution they will be arranged in tribes and will occupy northern Africa from Morocco to the Red sea along with Arabia. The visions of the prophet of Mecca will be fulfilled with a higher

truth than he foresaw.

Ishmael represented the material line, and Isaak the spiritual line of inheritance. So far, in all history, the material and the spiritual have warred with each other. In the Messianic kingdom, the two are forever united in harmony. The children of Isaak shall dwell in peace with the children of Ishmael. The rule of discord sundered the Israelites into two nations in ancient times. One hand and one law will unite all the children of promise, and through them, the whole race of man.

With the new basis of unity, the Turkish people, the Persians, and the Armenians and Circassians,



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tory are measured by certain numbers. These are the very numbers which enter into the structure of

man and of the universe.

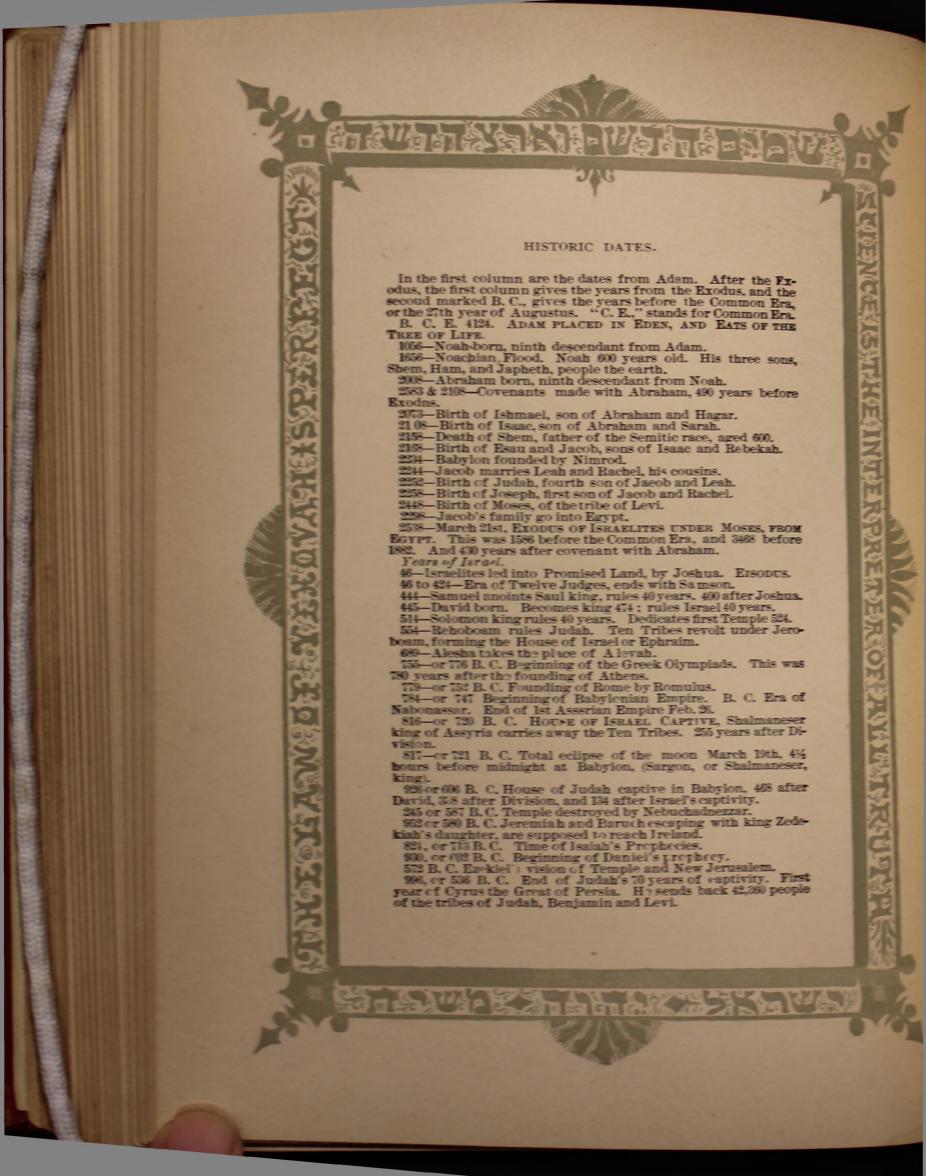
If we classify the events of history according to their different kinds, then we shall see that each kind is divisible by a certain number. For example, those events which relate to Renewal or new life, have eight as a prominent factor in their dates. Those which relate to the display of spiritual power, have seven as a factor. Six is a prominent factor in periods of secular or earthly power, like the Roman and Mohamedan. The 1260 in their dates resolves into the factors, 6x6 5x7. From the end of Cyrus to the final Dispersion of the Jews is 666 years. The year of the Flood 1656, is 6x6x46. The destruction of Jerusalem, 4194, is 6x699. The nines are numbers of Judgment. From Nabonassar to Romulus Augustulus, the last of Roman Emperors, is 1260 lunar years.

Forty is eight times five, the number of covenanted probation. It occurs twelve times in the

history of ancient Israel.

The "Seventy Weeks" of Daniel is 490 years, counted by the year-day theory. This measures from Exodus to Samuel; from Samuel to the Babylonian captivity by Nebuchadnezzar; and from Nehemiah's Commission and its execution in rebuilding the Temple, 418 B. C., to its Destruction under the Roman Titus, is 490 years.

Thirteen is a a number of discord or division, and is a factor in periods of this kind, like the Ishmaelitic and Mohamedan. When the thirteen is a pivot, then it is a number of structural unity.



HISTORIC DATES.

1125, or 457 B. C. March 20th. Ezra returns authorized by Artaxerxes to rebuild the Temple. Reaches Jerusalem July 16th. 490 B. C. Greek power rises; battle of Marathon.

1126 or 458 B. C. Queen Esther procures favors for the Jews. 444 B. C. Brilliant age of Greece. Pericles, Apelles, and He-

rodotus.

rodotus.

1174 or 410 B. C. Malachi the last of the prophets.
1200 384 B. C. Birth of Aristotle; he founds Inductive Science.
334 B. C. Alexander the Great, Battle of Granicus.
1273 323 B. C. Alexander's kingdom divided. Ptolemy takes
Beypt, Antigonus rules Syria, Lysamichus rules Acia Minor,
and Cassander-rules Greece. The "four horas" of Daniel.
182 312 B. C. Era of the Seleucidae.
291 B. C. Simon the Just, last of the Great Synagogue. Close
of the Hebrew Canon.

291 B. C. Simon the Just, last of the Great Synagogue. Close of the Hebrew Canon.
247 B. C. Ptolemy Philadelphus founds Alexandrian Library.
1418 163 B. C. Antiochus Epiphanes sets up the Abomination of Desolation in the Temple.
1421 165 B. C. Temple purified by Judas Macabeus.
50 B. C. Julius Cesar crosses the Rubicon.
1539 27 B. C. February 14th Augustan Era Begins.
1561 25 B. C. Herod begins to rebuild the Temple.
1580 6 B. C. Birth of Jesus of Nazareth, or Yeshua.

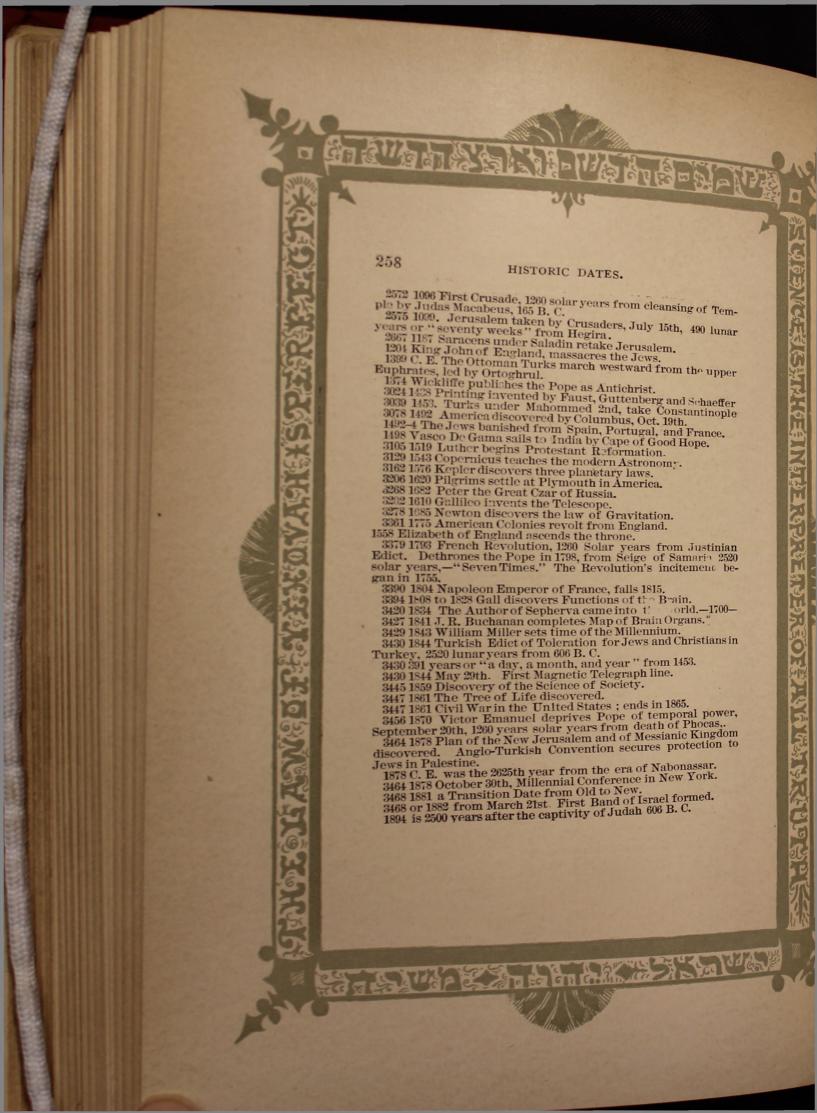
1580 6 B. C. Birth of Jesus of Nazareth, or Yeshua.
1586 1. Beginning of Common Eda, 27th of Augustus.
1614 23 C. E. Crucifixion of Jesus, aged 23.
1656 70 C. E. 10th of 5th month, Destruction of Jerusalem by
Romans under Titus. 1,100,000 people perished.
1721 135 C. E. Barochab claims Messialiship, and is defeated by
Romans. Jews dispersed, 530,00 perished.
Rabbi Yehuda forms the Mischna about 170.
1309 323 C. E. Constantine makes Christianity national in Rome.
1381 325 C. E. Roman Empire divided into Eastern and Western.
410 C. E. Sacking of Rome by Alarie the Goth.
238 452 C. E. Hengist and Horsa with the Saxons arrive in Brit-

ain.

2002 476. End of Western Roman Empire. 1260 lunar years from Nabonassar, 1222% solar years.
2119 533. Justinian Edict makes Bishop of Rome the head of all the Churches. Thence to 1755 is 1260 lunar years.
2176 590. Gregory the Great. He Latanizes the Church.
2136 607. Phocas decrees Headship of the Roman Bishop. Thence to flight of Pope in 1848 is 1260 lunar years.
2316 622. JULY 16th HEGIRA OR MOHAMMEDAN ERA. From Jehoakiam 1260 solar years. Hegira is 1260 solar years from 1882 C. E.

1892 C. E.
2223 637. Saracens take Jerusalem. and build Mosch of Omar,
1230 lunar years after Burning of Temple by Nebuchadnezzar,
1236 8.C. Thence to 1882 is 2520 years.
1236 800. Charlemagne rules Germany, France, and Spain.
130 C. E. Haroun Al Raschid, Caliph of Bagdad.
131 Russian monarchy founded by Buric.
131 Alfred the Great king of England.
131 Canute the Dane, monarch of England.

1017 Canute the Dane, monarch of England. 1058. Soliman, a Seljukian Turk takes Jerusalem. 2542 1068 William the Norman conquers England.



Periods of Judgement have nine as a factor. The date 1881 contains twice 9 in the century, and 9x9 in the year, making it eminently the turning point as a year of Judgement. It reads the same backward or forward, it looks equally toward the past and the future. It is the 19th century of the common era, and 19 signifies Humanity come to judgement.

Time is a dynamic element, and therefore 5, 7, 9 and other odd or dynamic numbers are found more frequently than the even or structural numbers,

in the dates in history.

Transition Periods. — Every event in history is the result of a growth, and that growth must occupy time. There must always be a period or phase of preparation, more or less extended. The critical point of change, from one to another, may be very clear; but we can trace each phase back for years or centuries, into the preceding age. There may be several points with apparently almost equal claims to be concidered as the turning points of a phase of history.

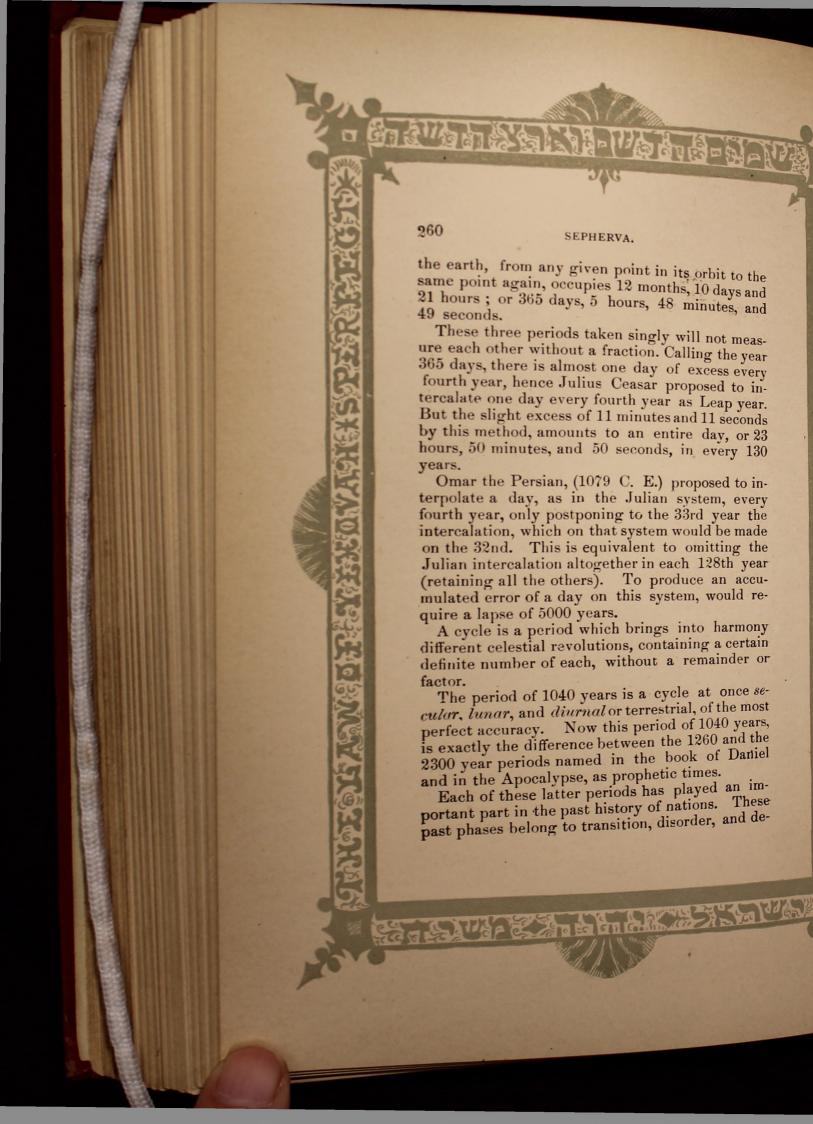
Solar Cycles—The revolutions of the earth, the moon and the sun, have a direct and well marked effect not only on the physical growth and life of plants and animals, but also upon the social or historic life of men. The great events on the dial plate of history synchronize with these cosmical

revolutions.

The day contains 24 hours, and is measured by one revolution of the earth on its axis.

The month extends between one new moon and another, the time of one revolution in its orbit, or 29 days, 12 hours, 44 minutes, and three seconds.

The year or apparent course of the sun around

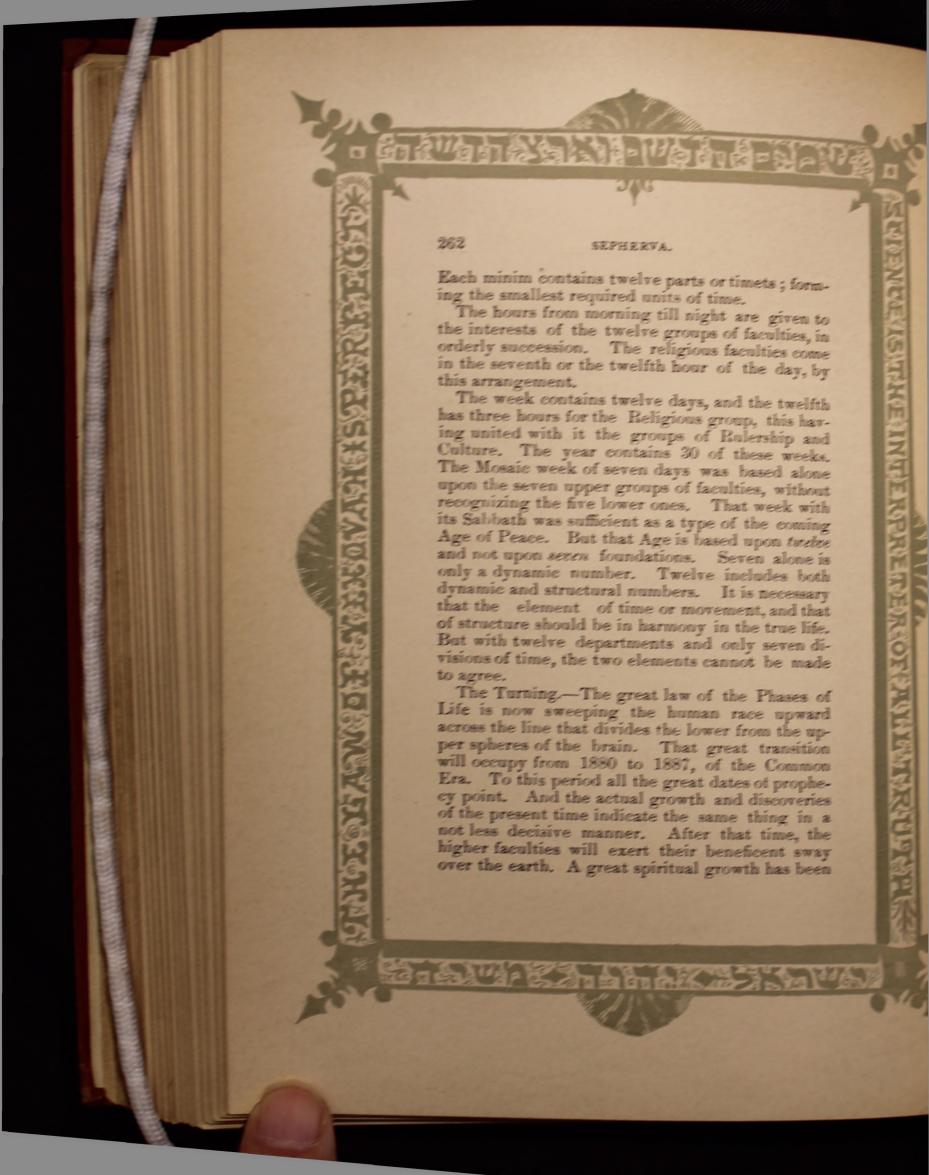


velopment; and consequently the prevailing factors in them are dynamic and earthly, and not

spiritual and constructive. Future Measures. - In future history, from the beginning of the Kingdom of Israel, the constructive, or factors of of organization, will rule. Then 1260 and 2300 will disappear as measures of eras, while 1040, with its factors and aliquot parts, will become the standard of division in historic periods. 1040 is 7 times 144 plus 36, or 3 times 12. It will be subdivided into 7 periods of 144 years each, a great Week of Years, with a period of 36 years in which to prepare for the next age. The factors of 1040 are $4 \times 26 \times 10$. It contains 4 the first number of organization, with 26, the number of the Human and the Divine Attributes: of the great Name; and of the Rulers on the Thrones. Its last factor, 10, is the number of material and spiritual law and power.

In the Kingdom of Israel, the year is divided into 12 month of 30 days each. This leaves five transdays at the end of each year. These transdays are used in making the annual change of office, employments, and studies. The year commences on the 21st of March, or the Vernal Equinox.

The day begins in the morning, measured from sunrise on the vernal equinox, and the 24 hours of the day are numbered consecutively from the morning hour of one day to that of the next. This avoids the awkwardness of being obliged to add A. M. or P. M. to each hour before we can know whether it is an hour of the day, or of the night. The hour itself is divided into twelve parts, (five minutes each, by Old Style) called horines, and each horine into twelve parts or minims (25 seconds)



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proceding through pastages. But it could not have an external form, it could not be embodied in social life or political institutions, until the plan and laws of the Kingdom were discovered and demonstrated. Since that was done in 1878, C. E., the whole path before us is clear. Our own hands must be instruments in building the magnificent structure of the new heavens and the new earth. We are to work after the divine and eternal pattern. And whenever we do this, the whole spiritual force of the angelic world will work with us, until success crowns our labors.

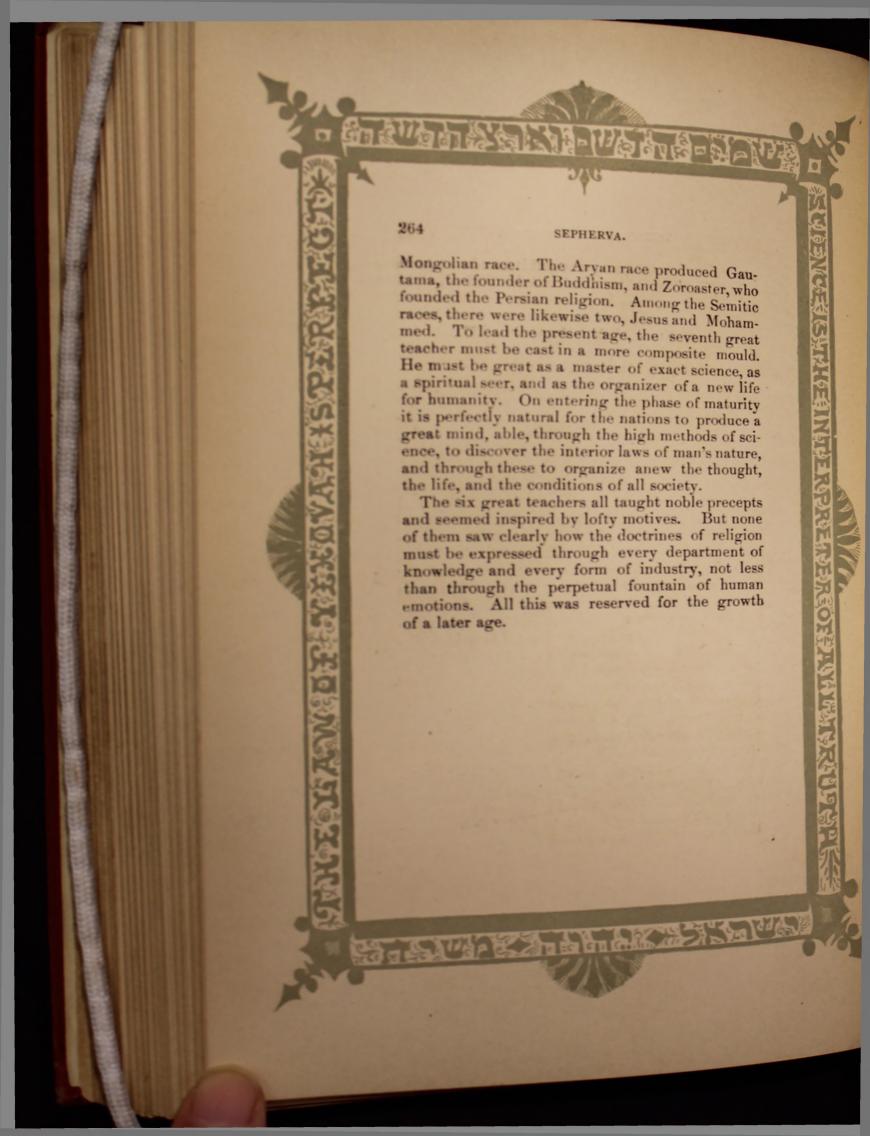
The Kingdom does not rest wholly upon Prophecy and interpretation. If all prophecies were swept away, its foundations would remain eternal and unshaken. For they are fixed in the constitution of man, they reach to the centre of the universe, and are proved by the sure tests of science.

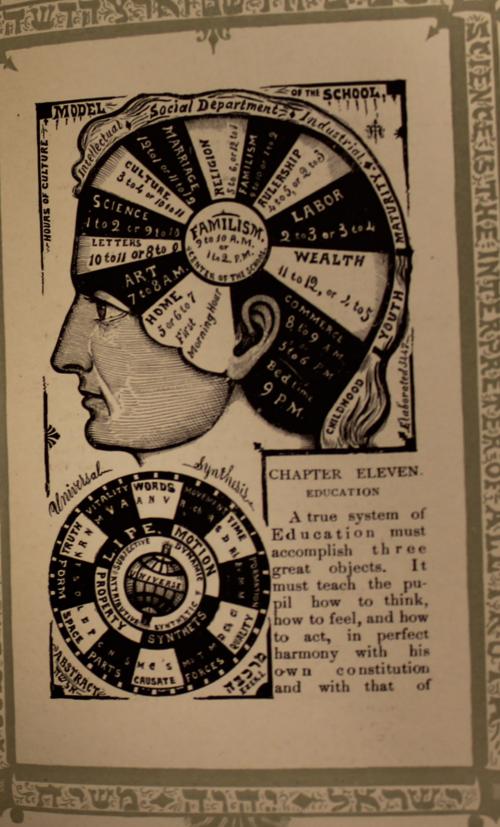
A mistake in these dates can therefore only change our knowledge of the methods and means by which we must reach the great consummation

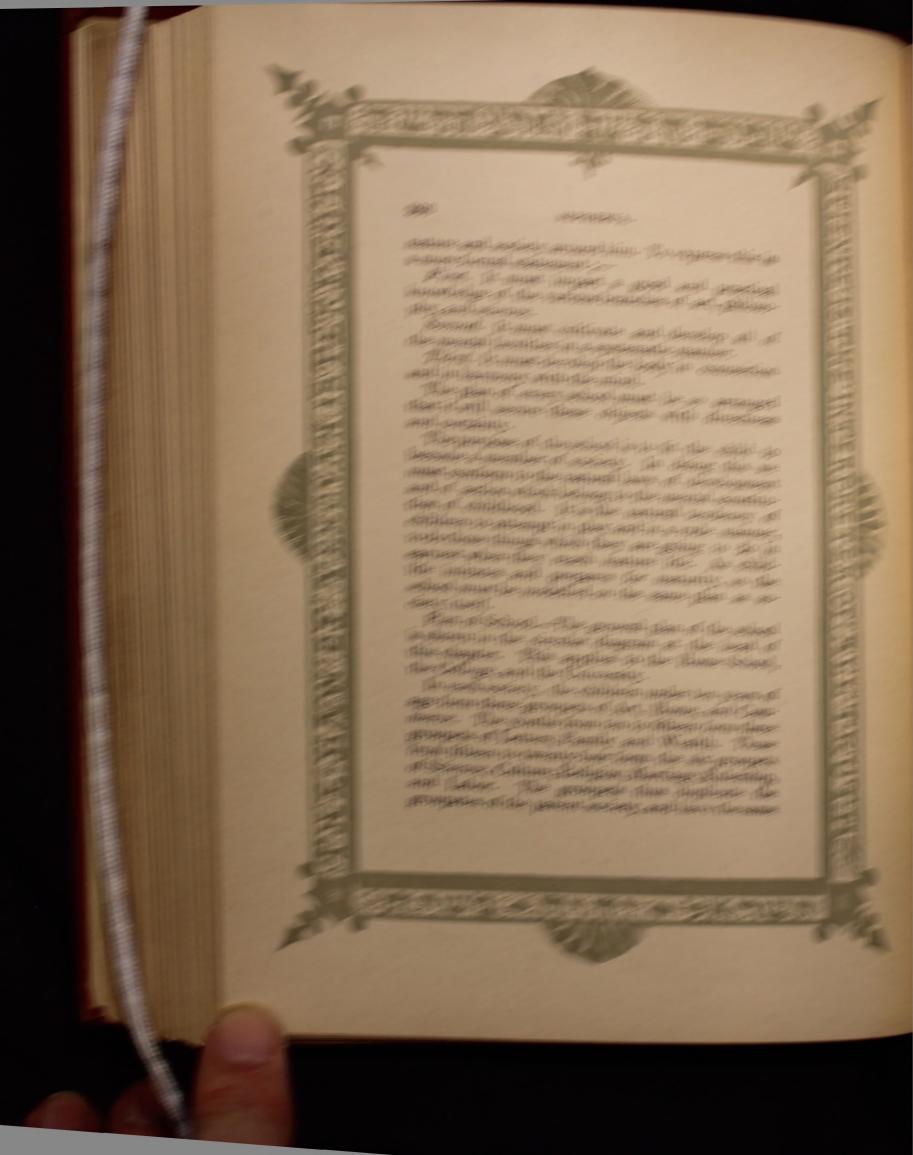
The Books of the prophets and the Apocalypseof John are the only parts of the Bible which distinctly claim to be inspired. And that claim we have removed from the historic to the scientific ground. All that is now necessary is to prove that it was written previous to the year 1840 A.C., in order to prove that its great Symbols and Types actually represent a true Scheme of Life, given through inspiration.

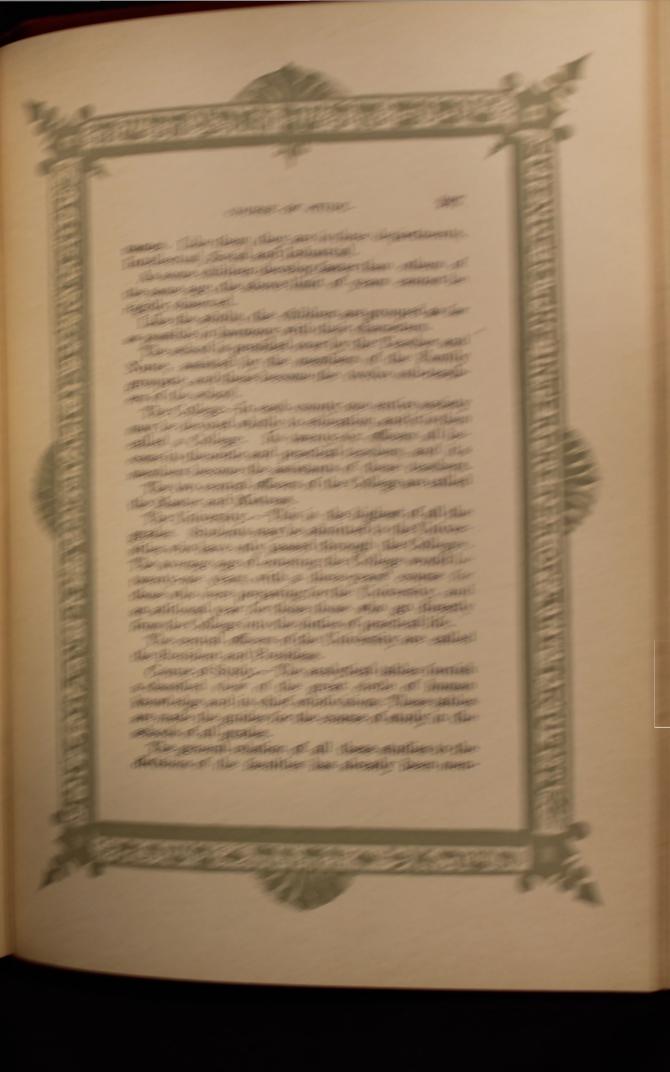
In the life of the Kingdom, inspiration will exist among all classes in society, it will not be sporadic and infrequent, as it was in ancient times.

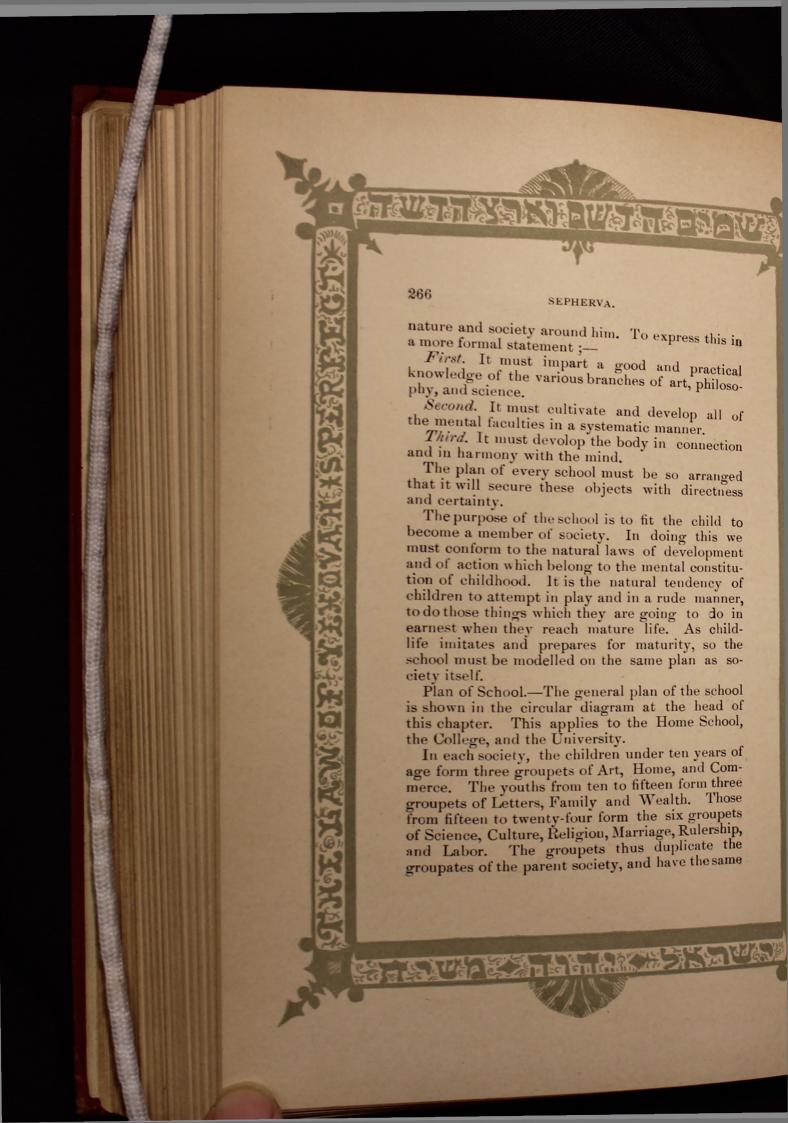
Seven Teachers. -- Confucius and Lao-Tse were the two great religious founders produced by the

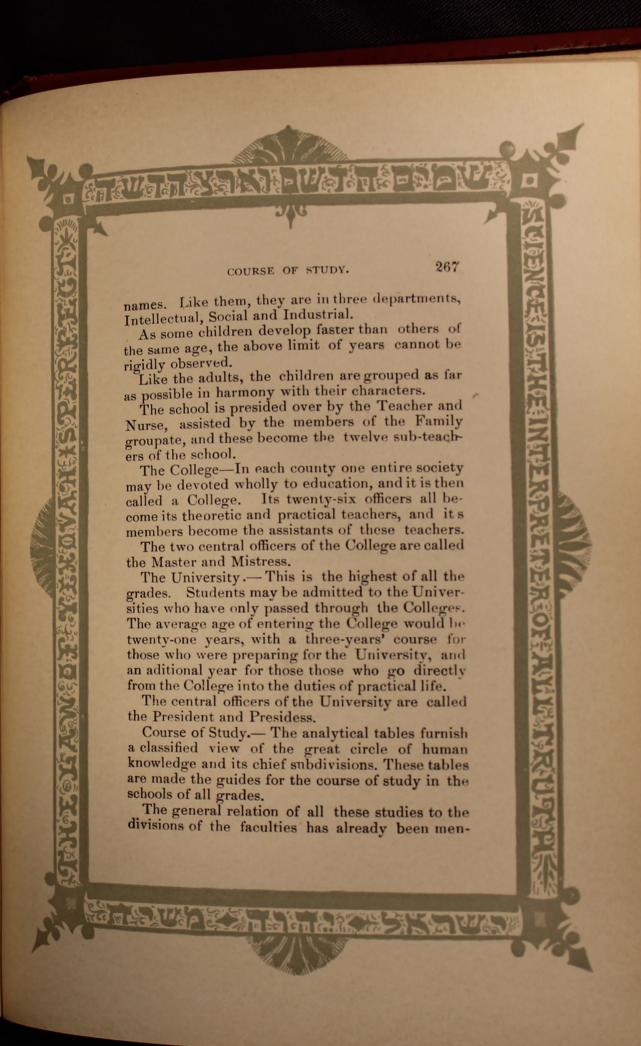


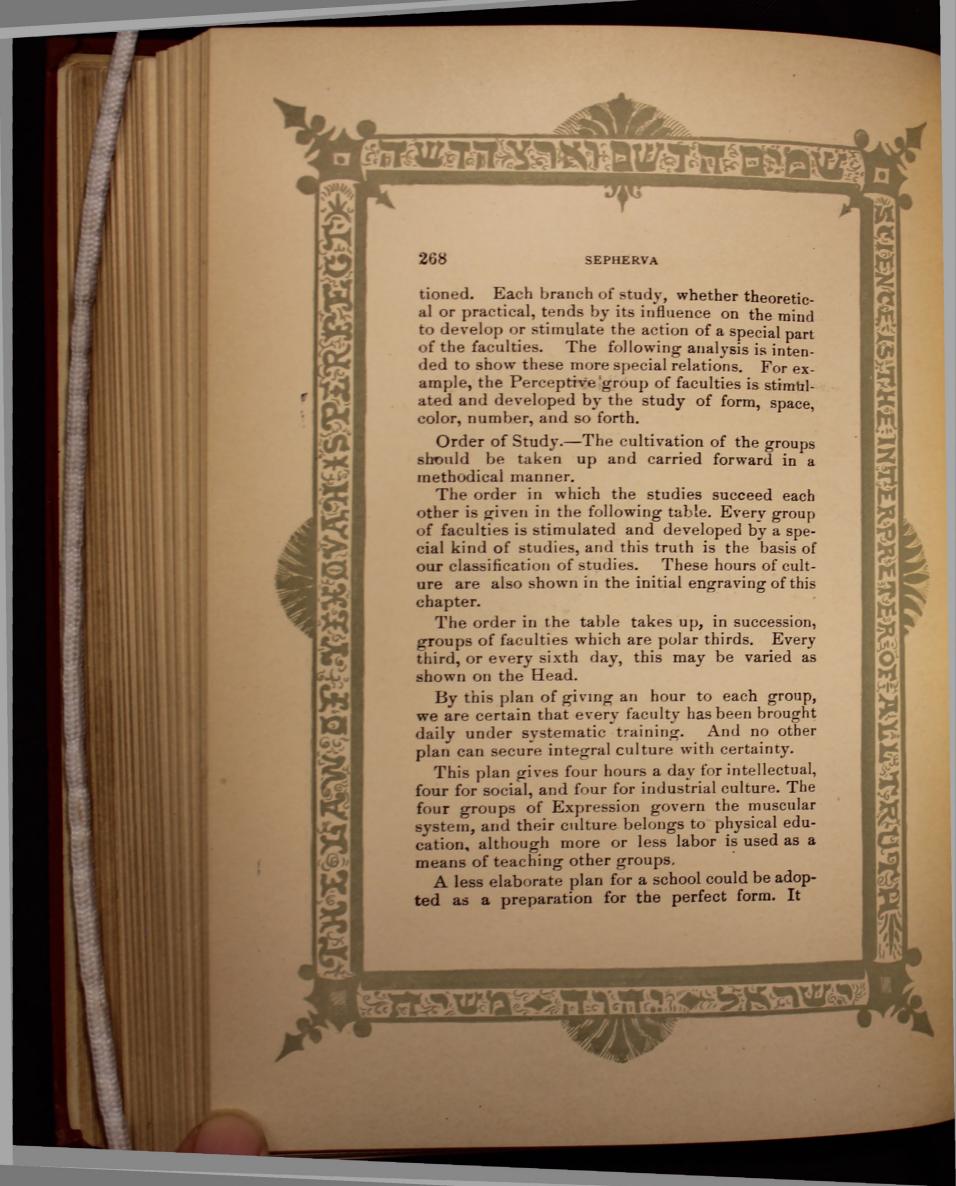


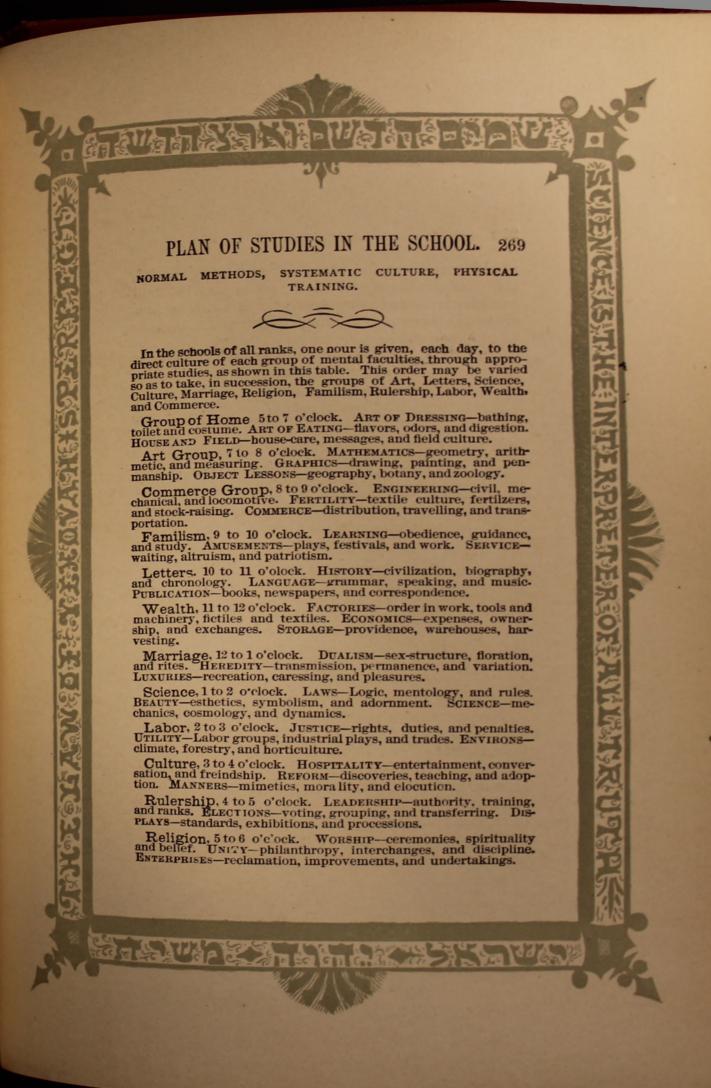


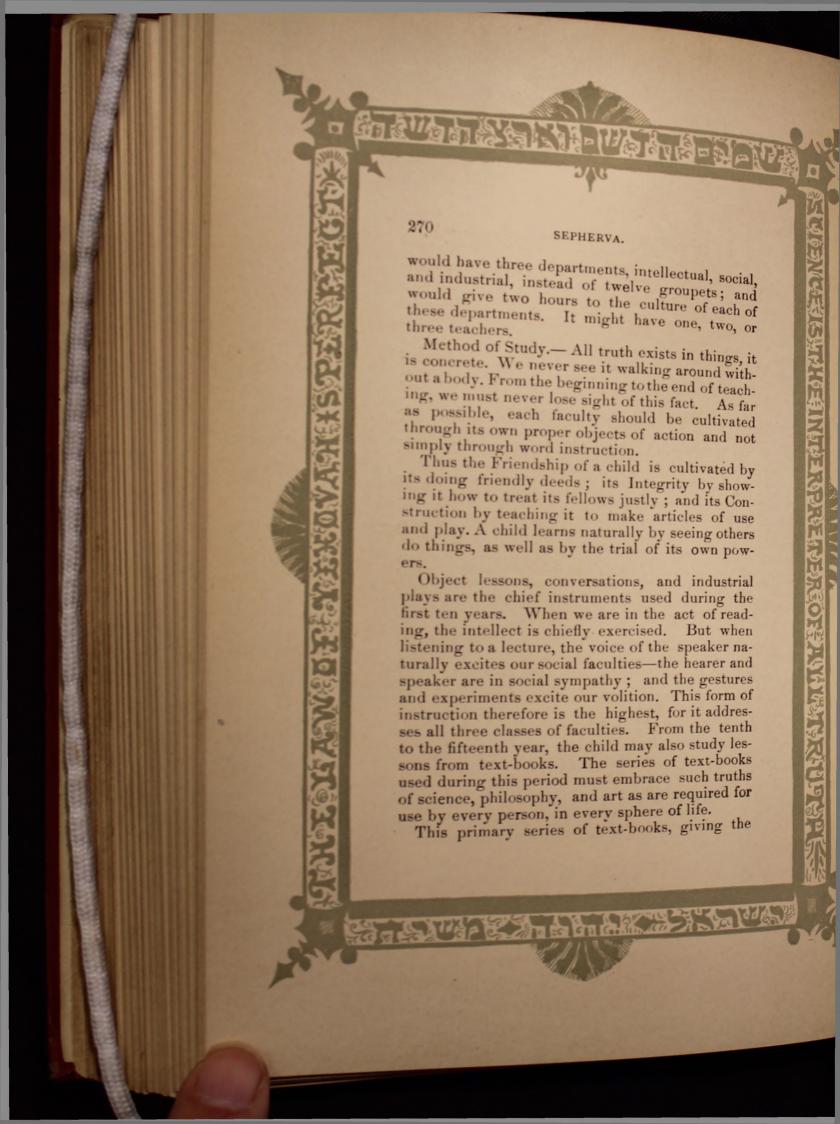












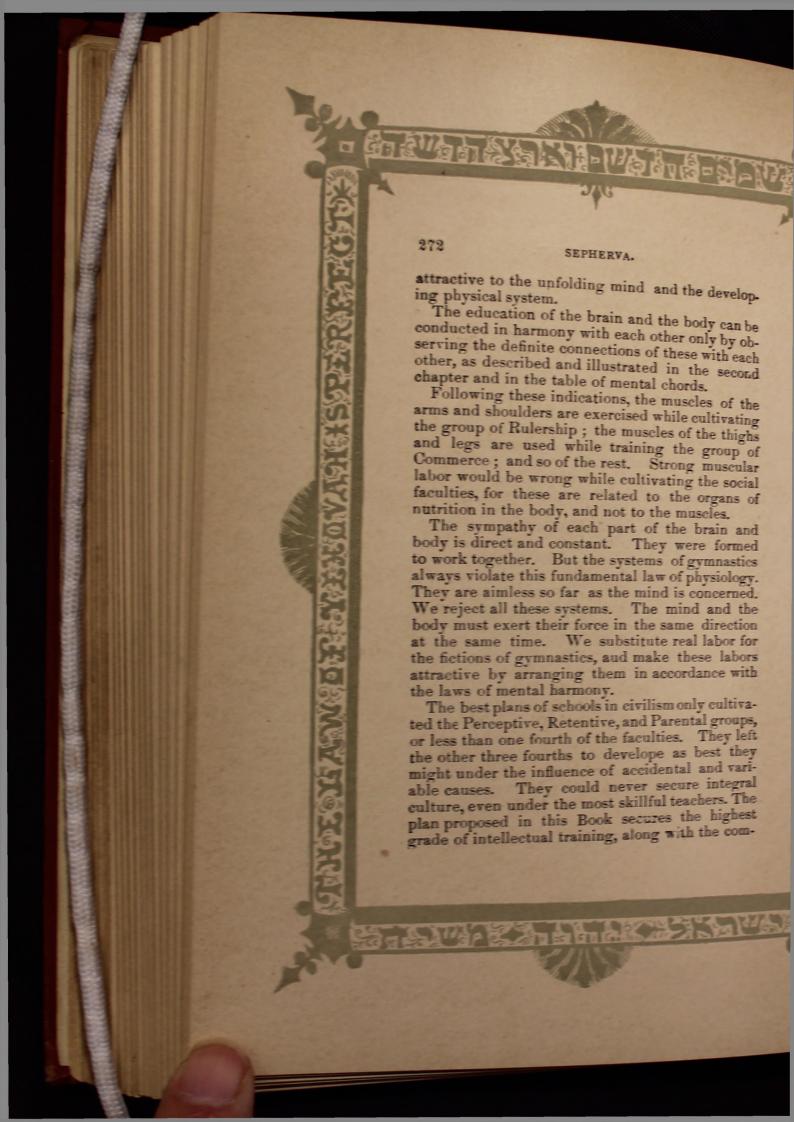
elementary principles, would include separate treatises on Geometry, Spacies, Arithmetic, Chemistry, Cosmology, Dynamics, Mentology, Physiology, Botany, Language, Esthetics, and Hand-Art. The Sepherva, abridged or complete, is used as the text-book on Mentology.

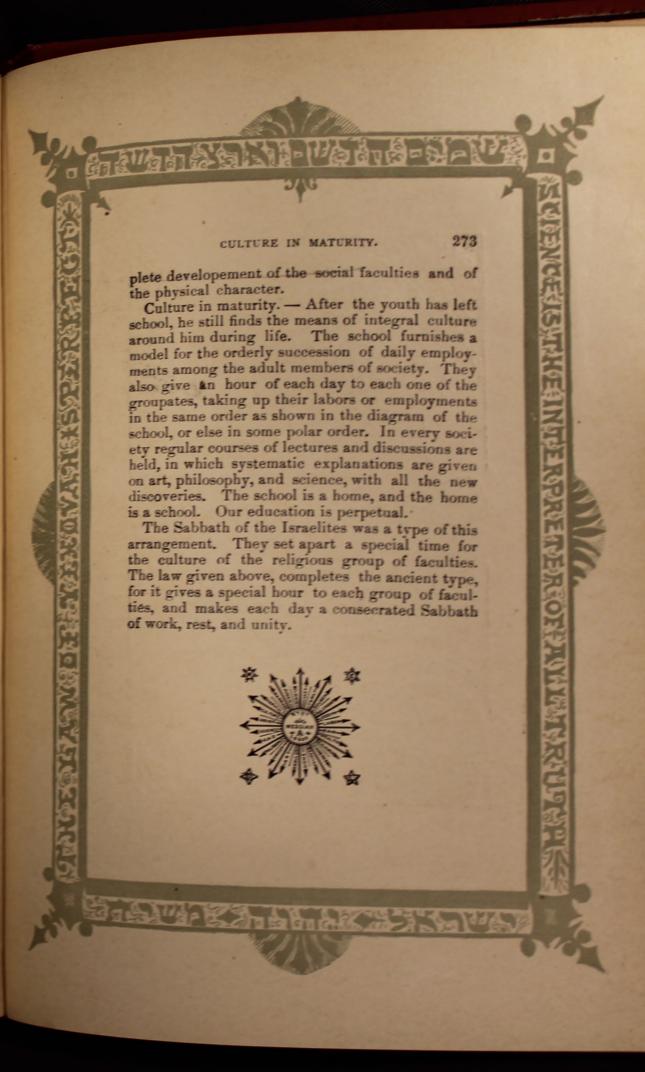
In childhood the lower faculties are dominantly active, and then successively higher ones come into prominent activity. But there are truths belonging to the higher faculties which are so simple that a child may understand them without difficulty, and other truths which may make a vivid impression through their symbols and ceremonies. It is through these that the higher faculties of the child must be first cultivated.

For example, the symbols of religion may impress the mind of a child, at three years, and at seven he may form an idea of his relation to the human family from that which he bears to his brothers, sisters, and parents. He would learn the laws of sex at first from the study of flowers and fruits.

At the age of fifteen the character and tastes of the youth have been well studied by his teachers, he has learned the use of various tools in the work-shops and on the farm, and hence he is ready to choose his profession for life. Having made this choice of a profession, or trade, he takes up the special and elaborate studies which belong to it, and follows these until his graduation at twenty-one. During this time he is under the direct practical instruction of the leaders in that group of the society to which his profession belongs.

From the fifth year onward, the life of the child is more or less productive to the society. Its in dustries are so organized that they are in every way





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ANALYSIS OF KNOWLEDGE. SCIENCE.

MATHEMATICS. Geometry—Formology, Engineering, Topography. Spacics—Trigonometry, Surveying, Mensuration. Arithmetic—Algebra, Book-keeping, Calcalus.

BIOLOGY. Mentology—Psychology, Sociology, Economics.
Physiology—Anatomy, Vitology, Sanatology.
Botany—Morphology, P. Vitology, Floralogy. PHYSICS.

Cosmology—Geography, Geology, Astronomy. Chemistry—Morphation, Cuisine. Analysis. Dynamics—Mechanics, Statics, Vibratics.

LETTERS.

PHILOSOPHY. Logic-Formula, Induction, Deduction. Analyies-Examination, Solution, Proving. Synthesis-Classification, Arranging, Gathering. LITERATURE.

Bibliology—Authorship, Pantology, Editing. History—Records, Statistics, Museums. Music—Vocalics, Organics, Gesturics.

CULTURE.

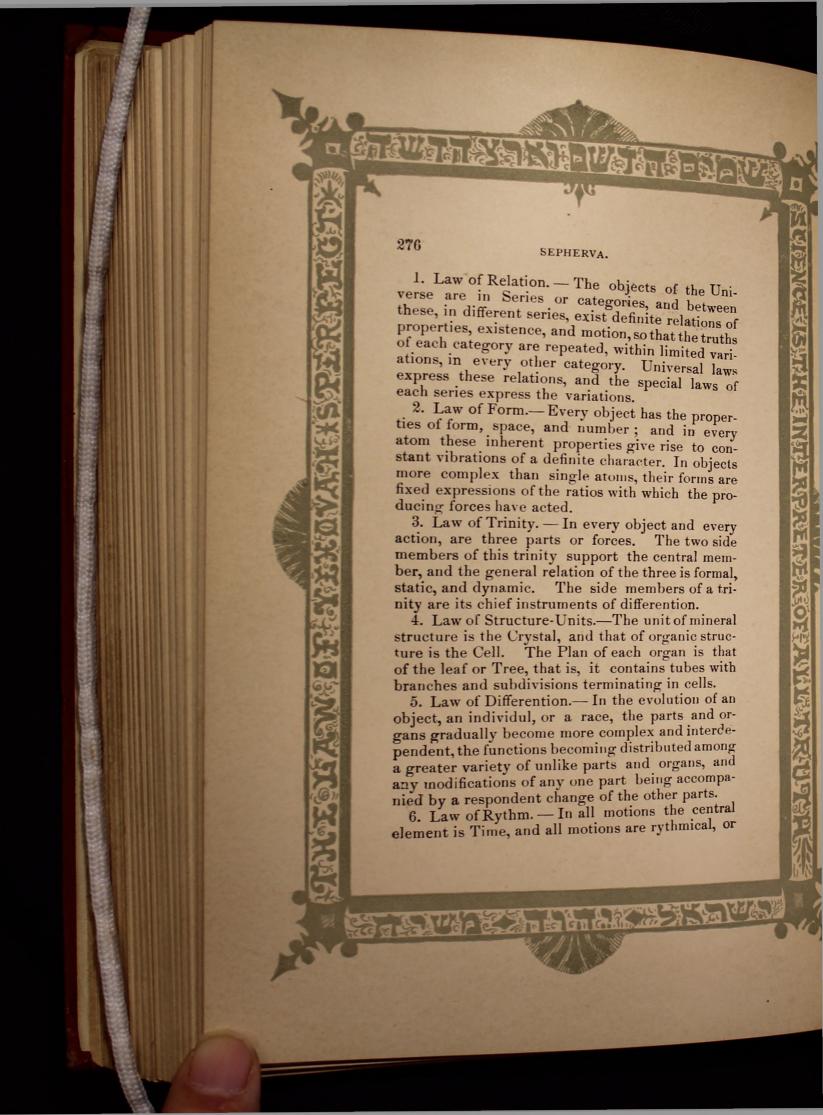
Education—Teaching, Studying, Training. Manners-Fashion, Habit, Custom. Morals-Sincerity, Purity, Probity.

ART.

Grammar-Etymology, Syntaxis, Orthography. Elocution-Oration, Conversation, Gesture. Printing-Publication, Typography, Binding-

Graphics—Drawing, Painting, Writing.
Costumics—Fitting, Sewing, Upholstering. Sculptics-Engraving, Sculpture, Carving. HAND-ART.

Architecture—Machine, Carpentry, Ship-building. Earth-Culture—Textile cult. Fieldwork, Forestry Manufactures-Instruments, Textiles, Wares.





SYNTHETIC LAWS.

have measurable forms and limits, and when these are reached, they tend to repeat themselves or return to equipoise. The smallest of these forms are the waves of the forces, and the largest are

the paths of the cosmical bodies.

7. Law of Polarity. — All action is polar or displays the concert of opposite forces or tendencies, the attractive and repulsive, or positive and negative. Matter has bipolarity and tripolarity; and spirit has bipolarity, tripolarity, and circu-polarity. The atoms af matter arrange themselves in groups and forms according to their separate and composite polarities.

8. Law of Conservation. — The seven great forces are Gravity, Heat, Polism, Chemia, Cohesion, Light, and Nerve-force. All forces are convertible, transferable, or counteractive, in measured proportions, a definite quantity of one always producing or else counteracting, a definite quantity of another. The entire quantity of motion in the

Universe remains always the same.

9. Law of Causation. — Every object has power to effect every other object, and each Effect is the Cause of another effect. In mechanics there is always a mutual action between the two bodies.

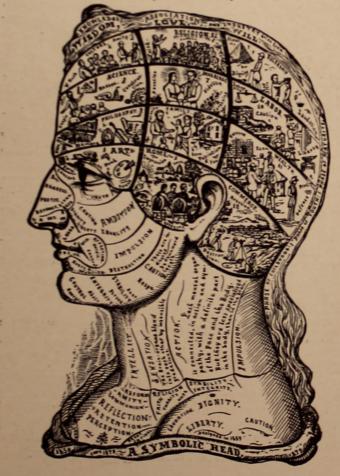
10. Law of Radiation.—The Forces all radiate from their points of emission in minute waves, the vibrations being transverse to the wave-course. Light, heat, electricity, magnetism, and nerveforce, may be transmitted along special conductors.

11. Law of Divergence. — The manifestation of force on a given surface decreases as the square of the distance from the point of emission. A single force, coming in contact with an object, is divided into a number of forces, differing in direction.

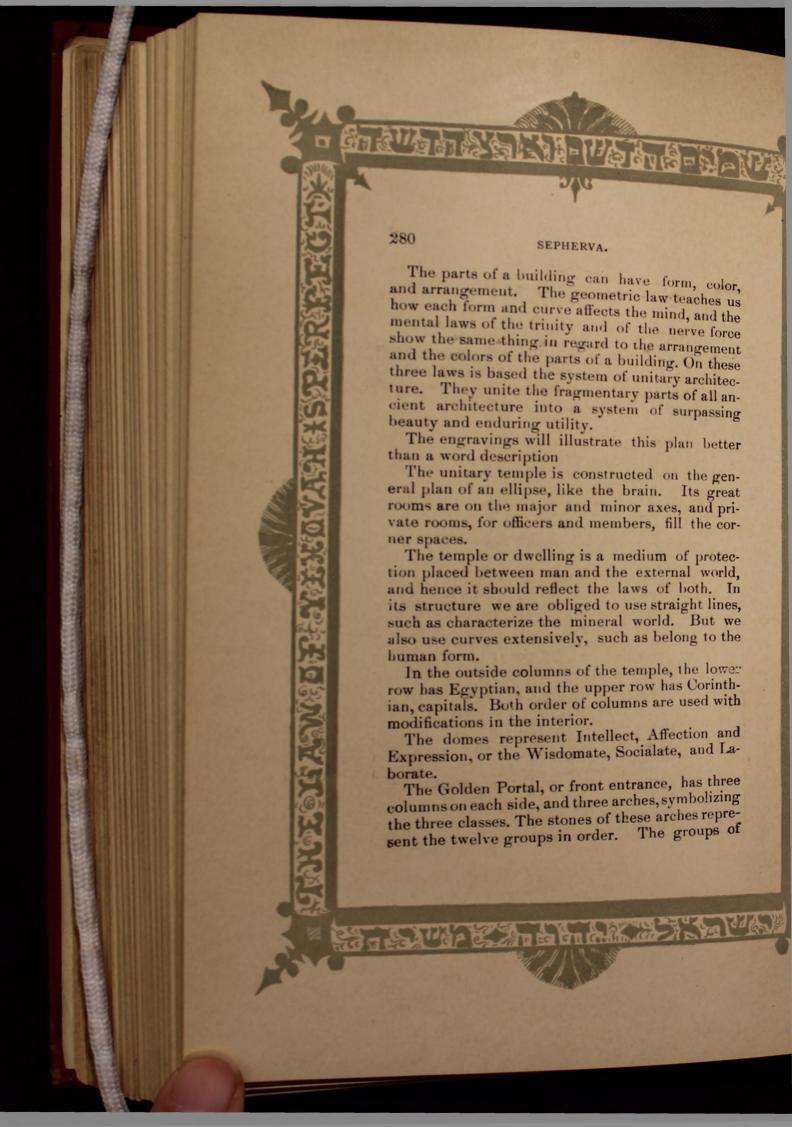
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SEPHERVA.

12. Law of Life.—The functions of living bodies are performed by organs, that is, by regular structures having definite and inter-related offices, and these organs maintain a constant adjustment of internal to external relations, and are capable of selfreparation and reproduction.







the brain form a series of arches, whether we measure it from the front to the back or from side to side. And they support and balance each other, like the stones of an arch. For example, on comparing the map of the brain with that of the groups; we shall see that the groups of Science, Culture, Religion, Rulership, and Labor, form an arch. Religion is the key-stone. On its two sides, and equally supporting it, are Culture and Rulership. Farther down Science and Labor balance and support it. These principles were stated under the law of Polarity, but they are mechanical as well as vital laws.

In Free Masonry there was an instinctive sense that some truth existed here, but it was not guided by any real or exact knowledge, and their architectural symbolism was both crude and impracti-

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The groups are represented by the flower, the sun, and the stones in the floor of the portal.

The great central court reaches from the first floor to the dome, from which it is lighted. It is surrounded by twenty-six columns. This is a place for social gatherings, as well as a passageway; and from the gallery around each story the members of the home can look down on what is taking place on its floor.

The Councilon is used as a counsel-room and also as a parlor. Above it a similar room, the Mimeta, forms the general parlor. The Auditum on the first floor is devoted to physical, and on the second floor to theoretic, instruction. Above the Appeton, or dining-room, is the children's playroom, or Formaton.

At the four corners of the great ellipse are the

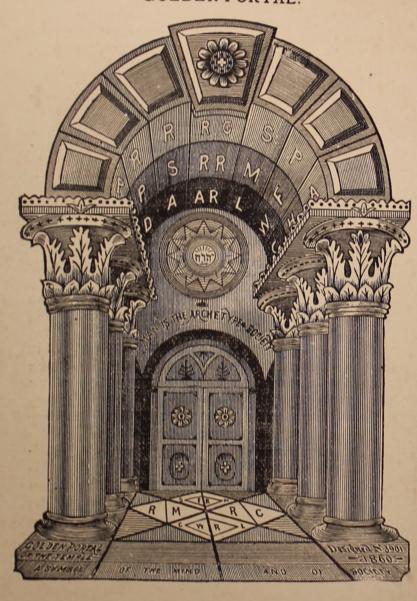
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SEPHERVA.

GOLDEN PORTAL.

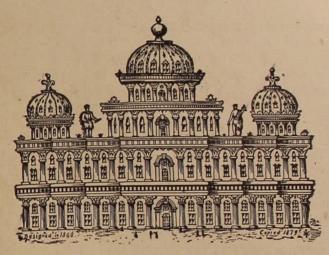


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PLAN OF THE TEMPLE.

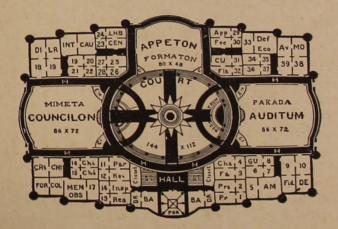
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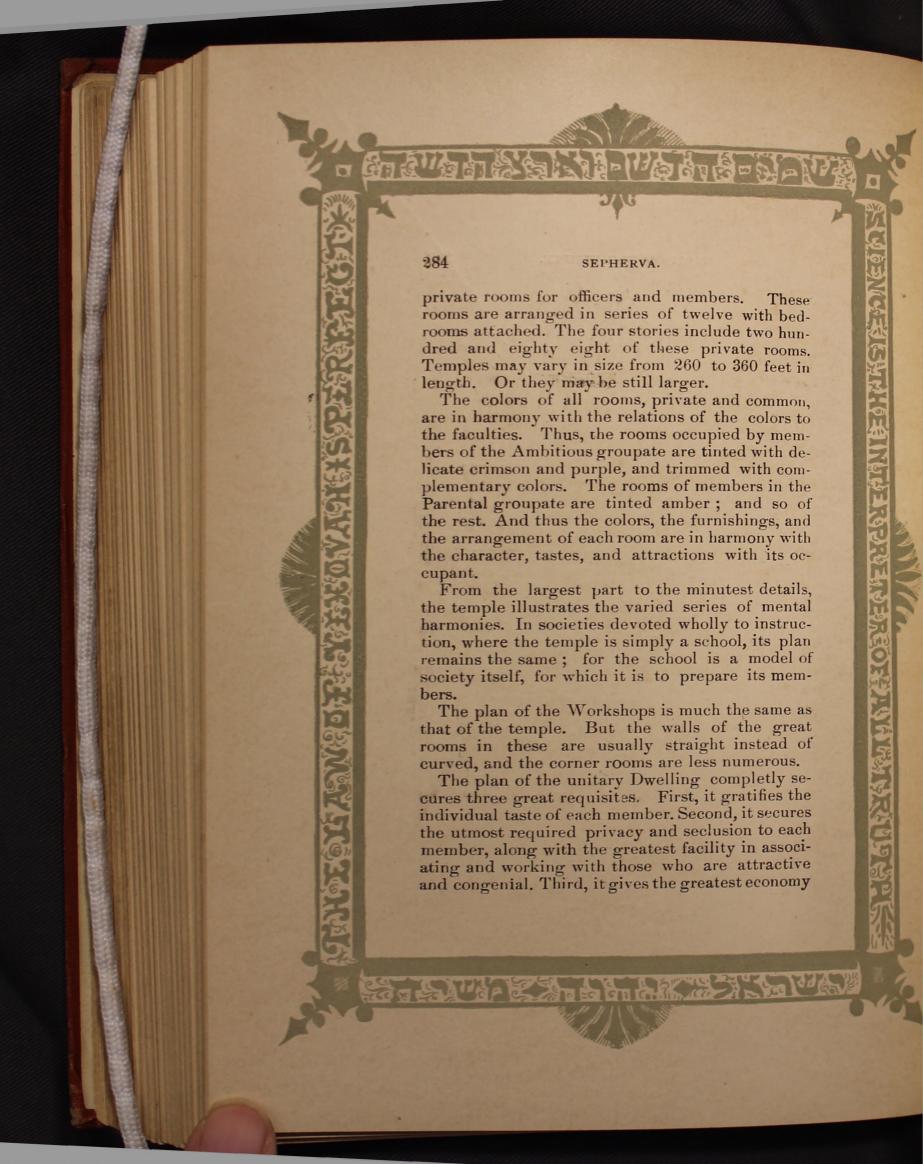


FRONT ELEVATION OF THE TEMPLE.

SOUPEN SOUND SECTION OF SOUR SOUR SIGNESS SOURCED SECTION OF SOURCE SOUR



PLAN OF THE TEMPLE.



of material in its construction, and the greatest convenience in carrying on the various departments of domestic labor.

Costume. Our costume should secure three things:

1. Protection from the elements, from variations of cold, heat, and moisture. This will depend chiefly upon the material and the texture of our clothing, things which can be easily arranged from the abundant resources of our civilization. It also depends partly upon the form of the dress.

2. Our dress should secure freedom of muscular movement. To do this, the dress should not be too tight; and when there are skirts, these should never reach below the knee. The costume of the two sexes certainly should not be any more

different than their forms and characters.

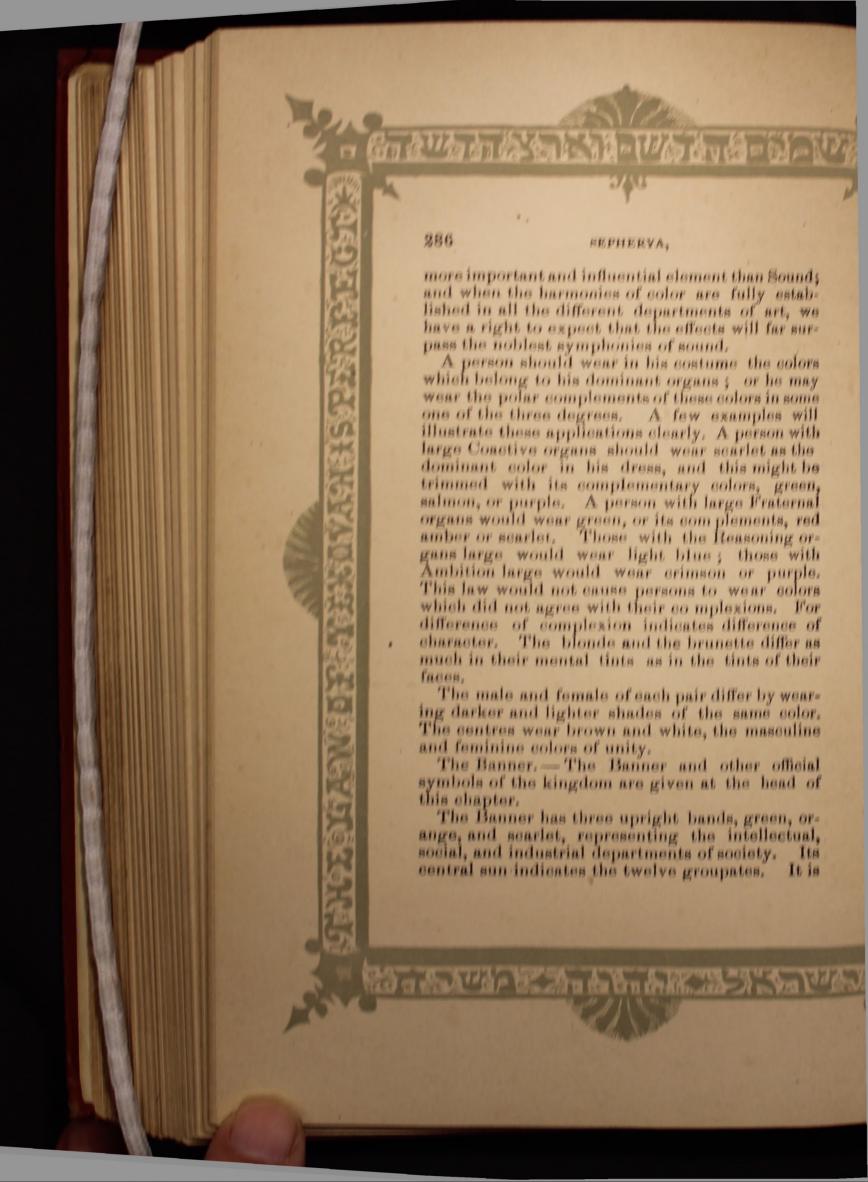
3. The third requisite in costume is beauty of form and color. No dress can supersede the divine beauty of the human form by greater beauties of its own. The general form of the body and the limbs should not be concealed, nor should any long, straight, unyielding lines occur. Long skirts reaching to the ankles or the ground, obviously violate this law of beauty.

In proportion as dress follows or echoes the natural lines of division of the human body, will it be beautiful and useful. These lines are shown in the map and plan of the body, and the engrav-

ed "measure of man."

Dress is a social expression of character, it affects those with whom we associate. Hence there should be some unity of its forms. Slight variations of the dress, in different persons, would correspond to their different characters.

Colors of Costume. — In nature, Light is a far



the Sun of Righteousness, for it shows the balance and righteous laws which rule these, and it truly symbolizes the perfect man. Its twelve rays have the same arrangement as the corresponding parts of the city.

The symbols of the officers and members are worn on their dresses. Their centers are circles in those worn by men, and ellipses in those worn by women. For the circle is masculine when com-

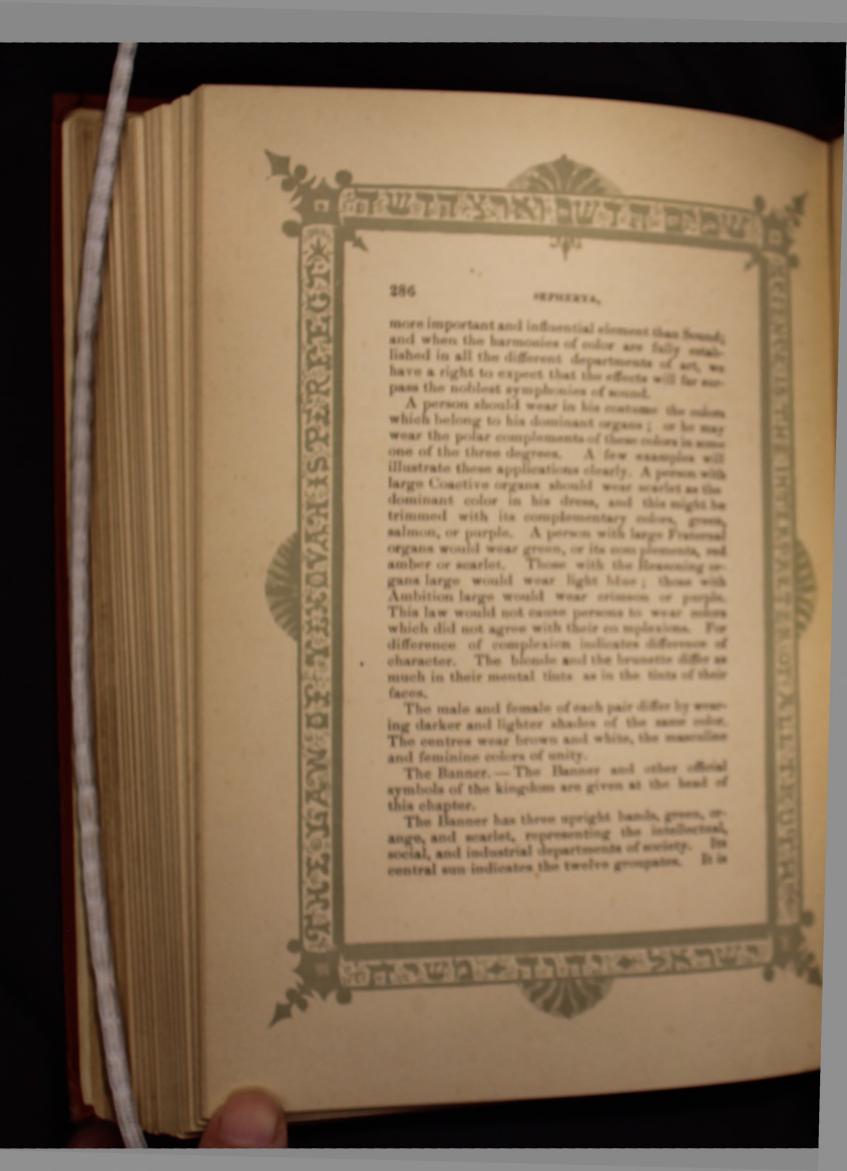
pared with the ellipse.

Among the ancient Egyptian, Hindoo, and Semitic nations the Cross was used as a symbol of generation. It stands for the major and minor axes of the brain ellipse, and when crossed at the middle and formed of curved lines, it is the feminine symbol of marriage and of society. When crossed nearer the upper end, it is the masculine symbol of these.

Influence of Colors. - Every color is a definite

kind of force.

The orange, yellow, and green rays of the sunbeam are the chief ones employed in constructing the delicate tissues of life. Now these are the very colors which the Author's observations and experiments have shown are radiated by the social groups of the brain—those of Affection. The Sensitive group radiates salmon; the Parental, amber; the Sexal, orange; the Religious, yellow; and the Fraternal, green. All of these faculties are related to the organs of nutrition in the body, those which organize its materials and build up its tissues. In the brain, these faculties attract human beings together, and produce all the complicated organizations of society. The colors of the intellect—different shades of blue tinged with



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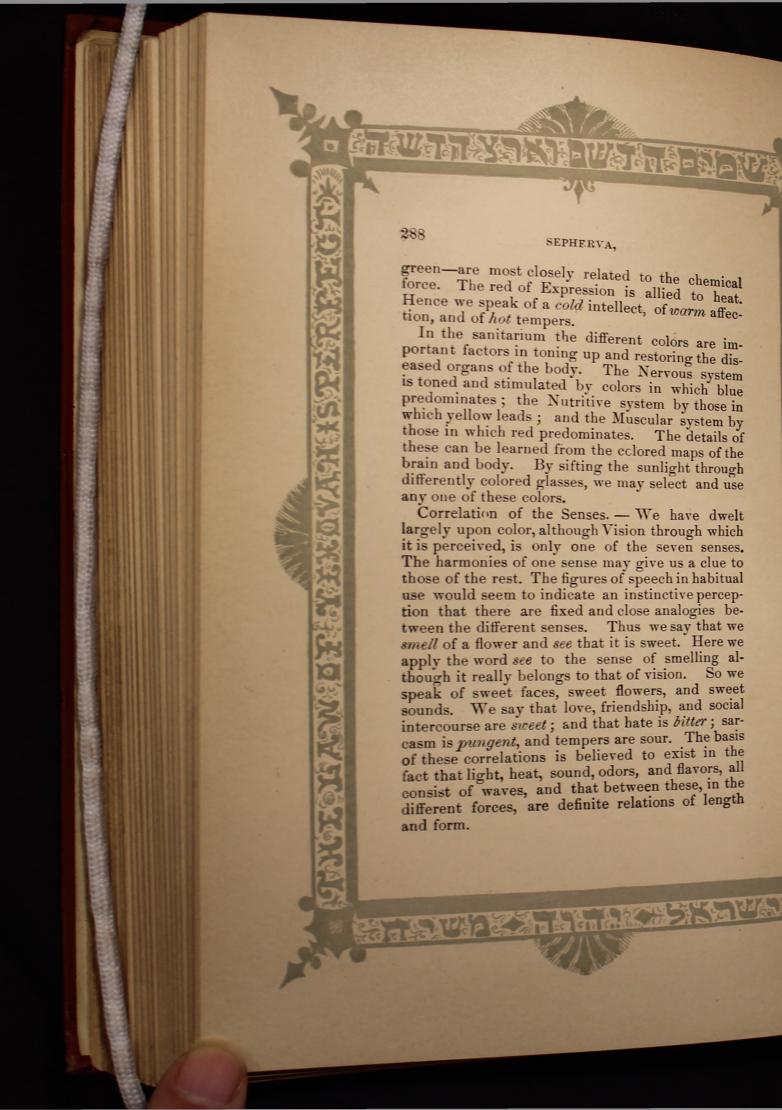
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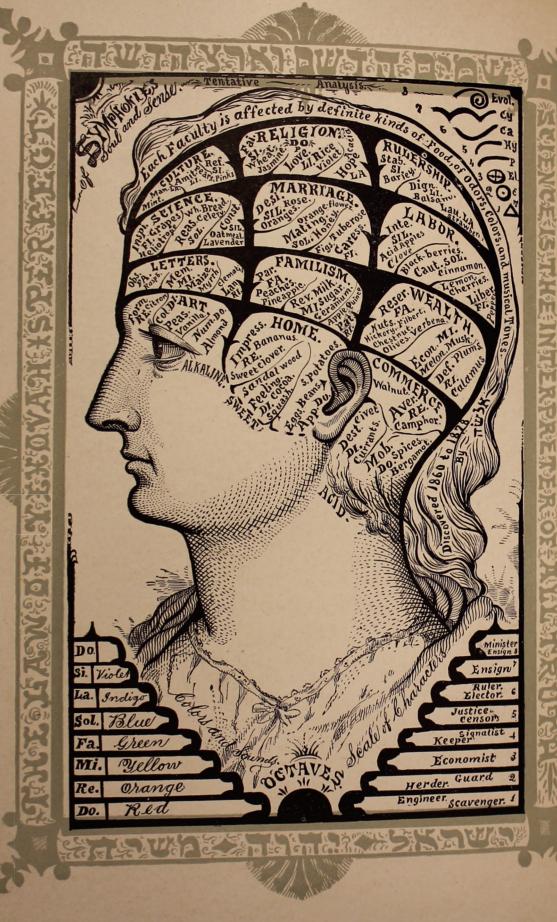


The organs of sense, the skin, the ear, the eyes the nose, and the tongue—are each adapted to a certain range of vibrations. The waves of sound are too long to set the rods and cones of the eye in vibration, and thus produce the sense of sight; and the waves of the nerve-force are not adapted to vibrate those rods and cones, except in unusual states of excitement and exaltation of sensitiveness. In this case, the rods are rendered more tense, and according to a well known law, they will then vibrate to the shorter waves of nerve-force. Then we see the nerve-force as light.

These explanations enable us to understand how one force can be converted into another. We have but to change the form and length of its vibrations, and the work of transformation is done.

We may perceive the vibrations of sound through the sense of touch, recognizing its pitch and its intensity. Yet in this case, as the Author's experiments have shown, the sensation is not precisely the same as it is when perceived through the ear. Probably no description of a sensation or an emotion could convey a perfect idea of it to a person who had never felt it in his own experience. Each mind must perceive them for itself. Yet the correspondences between the senses are so close, that the scale of harmonies for them all must be alike. The scale of musical accords and that for colors have already been worked out by science.

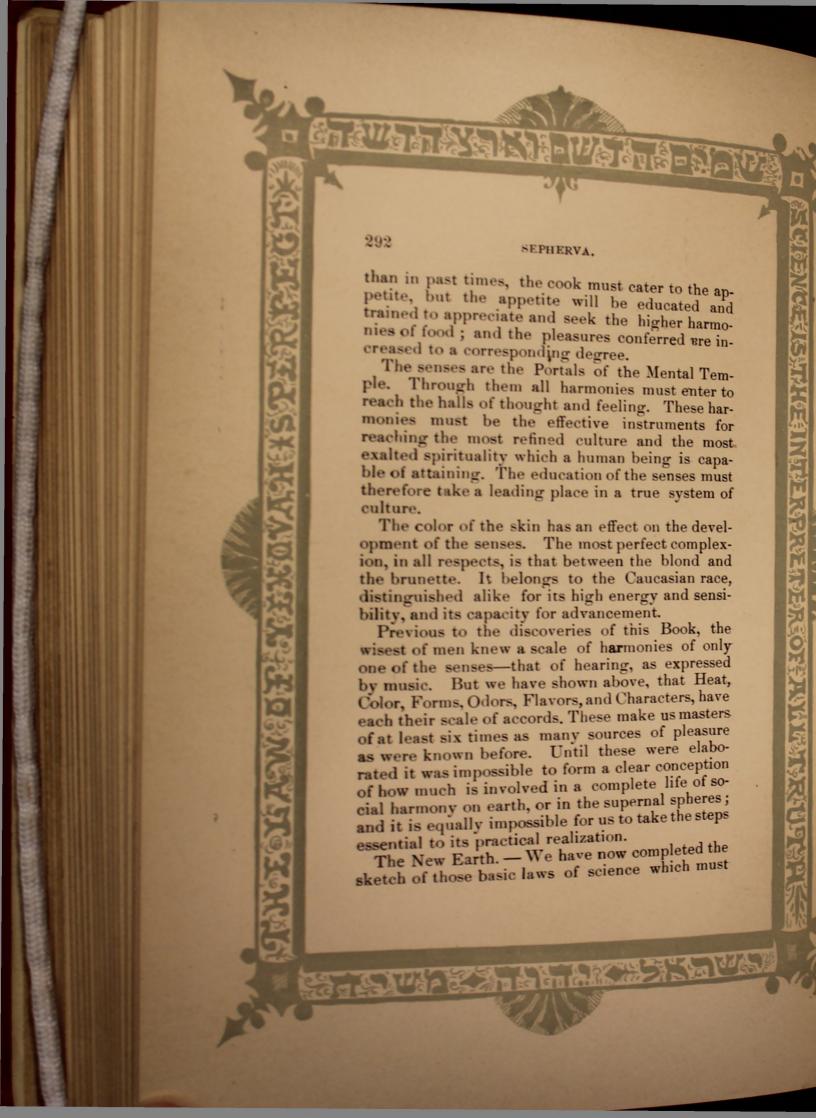
The senses are arranged in a series of octaves, and what appears as Sound to one of the senses, if transferred to the higher octaves would appear as Light or as mental Feelings.



Food may modify character; may mold, develope, or depress the different faculties by the effect of its odors and flavers. For illustration, we would feed a person in whom the social organs were deficient upon food in which the sweet odors and flavors predominate. When we wished to develop the intellect we would feed the person upon wheaten bread or other food having alkaline The flesh of animals, when odors and flavors. used as food, stimulates the base of the brain. chiefly excites the Impulsive, Defensive, Sensitive and Perceptive groups. It is not adapted to develop a noble, refined, and intellectual character. Its use as an article of diet belongs legitimately to savage life and the lower phases of society.

Our food may affect us by calling the various faculties into exercise in cultivating and procuring its different varieties. The culture of grains and fruits tend to develop the social faculties and the intellect. When a people settle down to the pursuits of agriculture, it is at once an indication that the arts of peace are beginning to prevail over those of war. In savage life, hunting and fishing were common means for procuring food, and these required the exercise of perception, sensation, destruction, cunning, and mobility. In civilized life, the slaughter of animals for food called the same faculties into exercise. The structure of the teeth and other digestive organs in man proves that he is naturally adapted to live on grains and fruits when he arrives at man's full estate.

In a harmonized life, the cook must understand well the relations of food, and be as truly an artist as the musician or painter, In a far higher sense

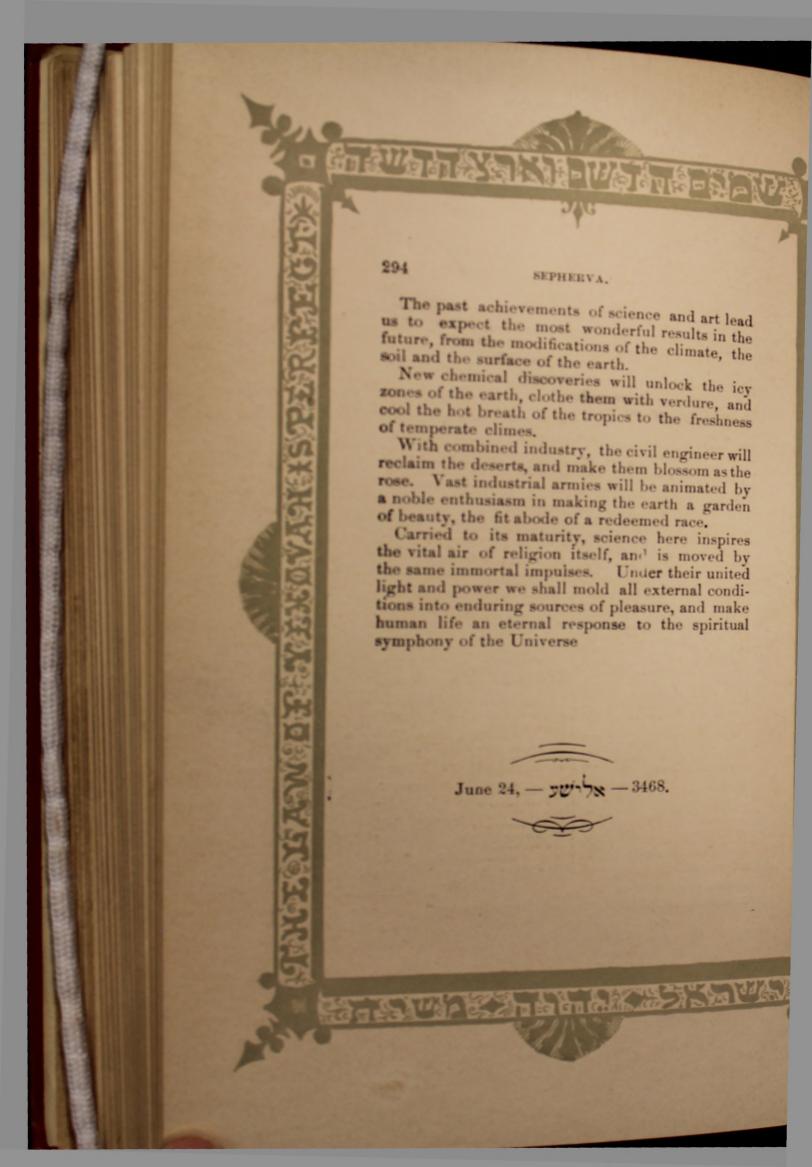


guide the activities of the new life for humanity. The high promises of science confirm the voice of inspiration and both of these will justify the hand and inspire the hearts of those who work for the

earthly redemption of man.

The immense transformation in the intellectual. the moral, and the physical life of man, will indeed make it appear like a new heavens and a new earth. In landscape art, the plan of the New Jerusalem will be taken as the model for all cities and towns. This plan is based upon the laws of form-beauty already explained in the first part of this volume. It combines in the highest degree the beauty of curved and straight lines with symmetry of its balancing parts. The streets are in-The great Temple in dicated by the dark lines. the center is occupied by the pivotal society or Band of Israel. Around this, on the four sides of the square, are grouped the twelve Bands, each having its buildings. There should be a natural limit to the size of a city, just as there is to the size of man. The city is a definite, organized structure, having a fixed relation of all its parts and activities. The capital city of the world need not contain more than 144,000 people as its fixed population.

The truths of science demonstrate that the long expected kingdom of righteousness must have a literal, material form, a definite and fixed constitution, and laws. The language of Bible prophecy on this point is clear and decisive. But its inner life is not less clearly marked. It is moved by the mightiest impulses of spiritual life, and these alone lift it into majestic power, and will maintain its triumphant course through the ages.



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