

FUTURE MEDICAL THERAPEUTICS BASED UPON CONTROLLED ENERGY FIELDS

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Introduction

At this conference, one of the important questions to be asked is, "What is the structure of a happy and healthy world and what are the possible means of realizing it?" Of special interest is the role that future medical therapeutics will play in this structure. This author feels that before such a structural description can meaningfully be made, man must develop a new self-image, wherein he views himself as a transcendental Being influencing his internal structure and the structure of his environment with his thoughts.¹ This will, of course, increase the incidence of psychophysiological effects in future medical treatment until such factors have been properly taken into account. Such factors will influence the efficiency of any energy field therapies we may create and thus must be recalled when we come to the end of this paper.

In this paper, I wish first to outline some of the experimental data that violates our present World Picture and suggests directions of needed change, and to present a brief description of a new World Picture that is qualitatively consistent with these observations. Next, some of the essential features concerning the nature of man and the components of healing will be presented. This is followed by a discussion of the body's interdimensional antenna system connecting the inside with the outside, and vice-versa. Finally, we shall consider directions, methods and devices for balancing the body's energies.

Some of the Cracks Appearing in Our World Picture

Up to the present, medicine, biology, and agriculture have largely viewed living organisms as operating via the following sequence of reactions:

$$\text{function} \rightleftharpoons \text{structure} \rightleftharpoons \text{chemistry} \rightleftharpoons \quad (1)$$

As a modification of equation 1, there is some growing awareness of the interaction between chemical states and electromagnetic fields as the next component on the right in equation 1.

Generally, flaws in the function area have been traced to structural defects in the system that arose out of certain chemical imbalances. The rectification procedure was usually via an adjustment of the chemical environment, with more and more sophisticated chemical complexes being utilized to trigger the organism's defense and repair mechanisms. The dilemma that arises is that both the organism and the threatening invaders adapt to the new chemical complex, becoming progressively less sensitive to it, and so the escalation of potency must continue. One very deleterious aspect of this procedure is that the unnatural chemical content of the organism increases and begins to influence other levels of functioning of the organism than the one being corrected. The effect is particularly serious

in the agricultural area, where the method of application of the chemicals is via the soil, so that a chemical equilibration develops between the plants and the soil, percolation of water through the system spreads the chemicals over a large area, and the whole ecosystem begins to suffer from chemical pollution. Clearly, mankind must find a better way of understanding and dealing with flaws of function in living organisms. However, so long as man continues to view living organisms via equation 1, he is stuck with his present methods.

In searching out alternative procedures for influencing the well-being of living organisms, one must first question the validity or completeness of equation 1. Are there effective physical, as distinct from chemical, techniques for modifying organismic functioning? Are there potential techniques for doing likewise in the domain of what would presently be called nonphysical energies? Let us look at a number of observations that reveal the total inadequacy of equation 1.

The most obvious discrepancy is the neglect of the influence of applied electromagnetic fields on muscles and organs in the human body. Everyone is familiar with the use of X-rays for tumor treatment and of diathermy for muscle relaxation, and we know that osteopathic physical manipulation techniques have had great success with improving human functioning for the past hundred years. In addition, from the field of neuropsychiatry, we have found that small electric currents between certain specific points in the brain give rise to the same behavioral changes that are observed with certain specific brain stimulating chemical intakes.¹ More recently, Becker has shown that small D.C. electric currents ($1 \mu\text{A}/\text{mm}^2$ to $1000 \mu\text{A}/\text{mm}^2$) cause cell regeneration, tissue repair and fracture rehealing, whereas D.C. currents greater than $10,000 \mu\text{A}/\text{mm}^2$ cause cell degeneration.² Thus, the first step in modifying equation 1 is:

$$\text{function} \rightleftharpoons \text{structure} \rightleftharpoons \text{chemistry} \xrightleftharpoons{\text{electromagnetic}} \text{energy fields} \rightleftharpoons \quad (2)$$

Going further, under hypnosis, the human body has been found to exhibit truly remarkable feats of strength and endurance, attesting to a mind/structure link. In Aikido, Zen or Yoga disciplines, we see a conscious rather than a subconscious link between mind, structure and function. On another front, modern psychotherapy shows us that certain chemical treatments influence mental states and certain mental treatments influence chemical states.³ Recent studies have indicated that human acupuncture points, of ancient oriental description, have different electrical characteristics than the surrounding skin.⁴ It is very easy to show that significant changes occur in the skin's electrical potential and impedance between waking, drowsy and sleep states as well as other hypnogogic states.⁵ In fact, some Soviet investigators utilize concentration techniques to enhance the "effective" voltage difference between two acupuncture points from $\sim 50 \text{ mV}$ to $\sim 500 \text{ mV}$ as a training technique for developing psychokinetic abilities.⁶ Finally, the recent development of biofeedback techniques^{7,8} shows us that the directed use of mind can not only allow us to exercise control over a variety of autonomic body functions like skin temperature, pain, etc., but also to effect considerable repair of the vehicle. Certainly the experiments in which Jack Schwartz thrusts needles through his body and mentally controls the bleeding attest to this. From the foregoing, there is little doubt that "Mind" must be included on the right of our reaction equation; i.e.,

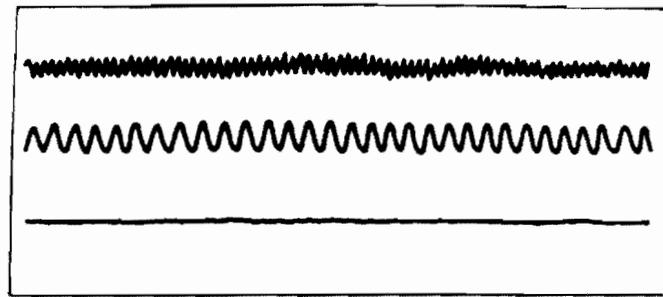
$$\text{function} \rightleftharpoons \text{structure} \rightleftharpoons \text{chemical} \xrightleftharpoons{\text{electromagnetic}} \text{energy fields} \rightleftharpoons \text{mind} \rightleftharpoons \quad (3)$$

Now the going gets a little tougher; we have shown a link between what we have called mind forces and the other elements of our reaction equation in the human body. We have not demonstrated that these mind forces influence inanimate matter, nor have we demonstrated if there is an intermediate reaction component between mind and physical energy fields, nor have we demonstrated any unique and distinguishable characteristics of mind. In what follows, a partial satisfaction of these missing pieces to the puzzle will be indicated. However, here, we must begin to go further afield to find published supporting data.

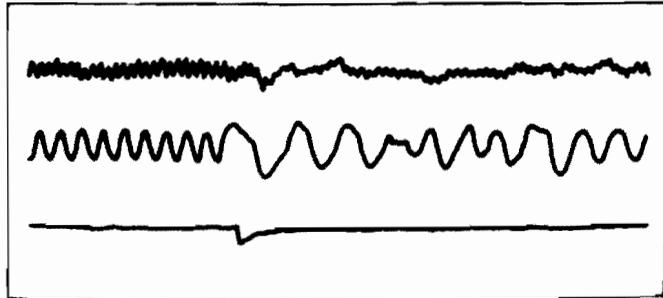
Careful studies of the enzyme trypsin have shown that its activity can be altered by placing solutions of it between the poles of a strong magnetic field or between the palms of a "healer."⁹ The effect of the healer's hands was comparable to that found with fields in the range of 10^4 gauss. A more recent study¹⁰ has shown the healer's ability not only to influence the growth of plants but also to influence cloud formation with the hands held (a) adjacent to a small cloud chamber and (b) adjacent to a visualization of the same chamber from 600 miles away. References to other healers, from Jesus to Arigo,¹¹ continue to appear in our publications, and one study¹² has even noted a change in the electrical impedance of specific acupuncture points on both the patient and the healer as a result of a laying-on-of-hands type of treatment.

Motoyama placed a person who showed psi-ability and a second, an ordinary person, in separate rooms shielded by concrete walls lined with lead. Then he had the subject possessing psi-ability concentrate his mind on the other individual while Motoyama made measurements to determine if any changes in bodily functions of the second (ordinary) person had occurred during the period of concentration by the psychic subject.¹³ Motoyama found that remarkable changes in the pulse and respiratory rate of the ordinary person were evident during the period of mental concentration by the psychic person (see Fig. 1). Since the two rooms were shielded against physical energy, he deduced that the psi-ability responsible for bringing about these modifications was essentially nonphysical in nature.

From experiments directed towards man-plant communication, we gain more support for the interaction between nonphysical energies and physical energies. One of the most remarkable experiments is taking place in Findhorn, Scotland,¹⁴ where, in barren sandy soil and with a hostile climate, the small community has succeeded in producing dozens of vegetables, flowers and trees of unexcelled size and beauty. Everything is based on the philosophy in which plants, soil, the natural forces of sun, rain and wind, and people are viewed as collective parts of the community of life. Via community meditation, talking to and expressing love and thanks to the plants themselves and via invocation of the aid of elemental nature spirits, the people have created agricultural products which defy conventional explanation. Backster's initial work¹⁵ and that of Vogel¹⁶ indicate that an electrical response can be obtained from a plant; these responses are consistent with the experimenter focusing his mind to project (a) the act of damaging another plant, (b) the destruction of another life form or (c) a thought-form of love, healing, etc. Backster postulated the existence of primary perception as a signal linkage between cellular plant life. However, Vogel¹⁶ postulated that the plants must be charged or sensitized by the experimenter's mind energies before being receptive to thoughts and emotions. Since a recent study¹⁷ showed an inability to reproduce the Backster Effect without a plant sensitization step in the protocol, the Vogel approach may be the more relevant one. Finally, to see our connection to the earth, we note that the Schumann resonance¹⁸ of the global capacitor between the earth and the ionosphere is in the 3 to 14 Hertz range, which encompasses the α , β , δ and θ ranges of the dominant human brain wave

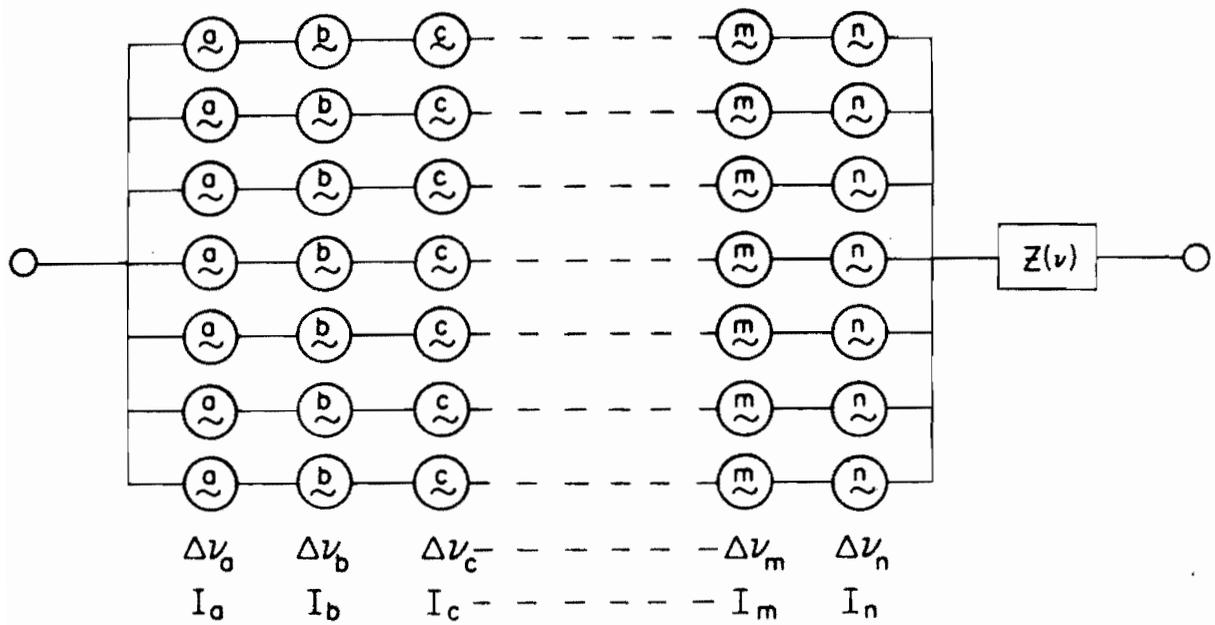


(a)



(b)

FIGURE 1



DISTRIBUTED POWER SOURCE

FIGURE 2

patterns. Recent studies have revealed that 10 Hz electric fields control the human circadian rhythms and that human reaction times are strongly dependent on the specific ELF (extreme low frequency) field being propagated in the local earth environment.¹⁹ In this series of experiments, we see a connectedness developing between living things at more subtle levels of energy than those associated with our physical chemistry.

Turning to the area of psychokinesis (movement of objects with the mind), we find an even greater confrontation for our present world picture. This author observed, first-hand, psychokinetic demonstrations in the Soviet Union by two different people.²⁰ Swann performed two significant experiments in this area²¹: (1) in the first he mentally altered the temperature of a thermister, located a fixed distance from his body, in a pattern consistent with a prescribed coding of hot, cool, neutral, etc., and (2) in the second he seemingly influenced the decay rate of a very sensitive magnetic field detector at Stanford University which was located behind vast metallic and concrete shielding. The psychokinetic experiments of Forwald,²² conducted over a 15-to-20-year period on small wooden cubes containing coatings of different materials of different thicknesses, showed an exponential dependence between psychokinetic force and coating thickness plus a proportionality to the neutron number of the coating material. Most recently, the demonstrations of Uri Geller have brought forth groups of children in England, Germany, Switzerland, Japan, etc., who possess similar and perhaps even greater abilities. Taylor²³ has recently described the experiments he has conducted with the young children in England. Perhaps most striking is their ability to mentally bend aluminum bars placed inside sealed transparent perspex tubes. The one-foot-long straight bars are seen to change into an S-shaped pattern filling the cross section of the one-inch-diameter perspex tubes without the end cap seals having been broken. Clearly, the mind forces can be used to influence not only living systems but inanimate ones as well.

Recent experiments on "remote viewing"^{21,24} have shown that an individual can (a) perceive and accurately describe objects placed at a removed location from the perceiver and his line of sight, (b) be given the longitude and latitude coordinates of a location on the earth and accurately describe the terrain of that location even though it is thousands of miles away and (c) tune in on a specific individual and view a remote locality through that individual's eyes. Interestingly enough, the sensitive individual sometimes perceives the scene before the target individual actually arrives on the scene. The reverse of this process, wherein one chooses a particular target, like a potential oil well, and seeks to know its specific earth coordinates, has also been accomplished. When one uses instrumental assistance, the technique falls into the category of "Radionics"^{25,26}; the specific sub-category is called "map dowsing." Radionics is an instrumental form of radiesthesia (defined as sensitivity to radiations, including the whole field of radiations, physical and nonphysical, from any source either living or inert) and, as such, deals with the interaction of mind and matter and with the complete interrelationship of all things.²⁷

Conventional dowsing studies, wherein a type of wand is used and one walks over the ground being scanned, have shown²⁸ that the dowsing response is a muscular action connected via a sequence of biological processes to the cause which, in many cases, is a magnetic field gradient. One individual has shown himself to be sufficiently sensitive to respond to a one-microamp current flowing in a wire, imbedded several feet in the ground, as he walks across the wire's location, with the magnetic field at the wand level being about 10^{-10} gauss (earth field strength is 0.5 gauss). The seat of the sensing ability in the body appears to be the adrenal

glands.²⁸ More recently, a number of U.S. osteopathic practitioners, investigating a subject's "kinesiology," have shown that specific body muscle tonus changes occur from specific minerals or chemicals merely held in the left hand or merely placed on the stomach (the ingredients may be in a glass container). This is a very similar result to that which this author has found using a type of dowsing wand called a biomechanical transducer.²⁹

Many studies have been carried out in the areas of telepathy and clairvoyance^{24,30} attesting to their state of function in the human being and in animals. Karagulla³¹ has utilized subjects with clairvoyant abilities to observe the "auric" fields around patients and thence describe their state of physical and mental health. These auric fields are perceived as patterns of light of different colors extending outwards from the body. With some subjects, the patterns can be viewed with the eyes closed or in total darkness.

Studies of precognitive awareness are also widespread, and a precognition teaching machine has been developed³² which allows one to train this ability into subjects or, rather, to enhance the present operating level of this human capacity. Experiments being conducted with pyramids of specific shape suggest that they are useful for preserving cellular tissue and to enhance the healthy growth of plants, even in total darkness.^{30,33} Combinations of specific shapes and specific materials in a unique fashion have been shown to produce devices called "psychotronic" generators,³⁰ which can be charged with biological energy and perform an array of functions that confound conventional understanding. This author has directly observed such devices in operation and accepts that they most probably respond to a "New Physics."

The foregoing list could be made much longer; however, the point has hopefully been made that equations 1 and 2 are inadequate to account for a variety of new (and old) experiences that have occurred in the family of man. Acceptance of this work is difficult for those who have had no experiential awareness of these "other" energies of nature, and it is somewhat understandable that the existence of these energies is vehemently rejected in many quarters as violating our collective picture of the universe. Some of the natural criticism about sloppy experimental procedures is justified in specified cases because it is extremely difficult to develop a completely "clean" protocol for these experiments. In addition, one may be justified in quibbling about the quality of a particular experiment or about the veracity of a given experimenter; however, the body of experimental data of this type is so vast and is growing so rapidly that it cannot be denied much longer. The weight of mounting evidence is so strong as to readily merit a wise man's reflection.

Towards a New World Picture

Incorporating the experimental results discussed in the last section, equation 1 takes the form:

$$\begin{array}{ccccccc}
 & & & & & \text{Positive} & \\
 & & & & & \text{Space-Time} & \\
 \text{function} & \rightleftarrows & \text{structure} & \rightleftarrows & \text{chemistry} & \rightleftarrows & \text{Energies} & \rightleftarrows \\
 & & & & & \text{Negative} & \\
 & & & & & \text{Space-Time} & \\
 \text{Energies} & \rightleftarrows & \text{Mind} & \rightleftarrows & \text{Spirit} & \rightleftarrows & \text{Divine} & (4)
 \end{array}$$

From the foregoing, it would seem that we must think of substance in a larger sense than man has normally had in the past. The model that this author has been working with deals with seven unique levels of substance in the universe. It is thought that these different types of substance express themselves in terms of seven unique dimensions, each with unique sets of laws, and these, because of polarity principles, form atomistic types of special energy configurations.³⁴ The energies of the different dimensions are thought to interpenetrate each other and to interact only weakly with each other under normal conditions because they represent different frequency bands, but it is believed that they can be brought to interact strongly by using the agency of mind.

This model treats the physical or positive space-time frame as the lowest energy band in terms of basic energy quanta. The next higher level, or frequency band, is called the negative space-time frame and is the conjugate or mirror energy system to the physical. The third level is a transitional dimension between the space-time dimensions and the non-space/non-time dimensions (called the astral level in theosophical literature). This energy band seems to be the framework for the emotional network of our being. The next three levels are levels of Mind: instinctive mind, intellectual mind and spiritual mind. The seventh level is the level of Spirit.³⁴ These last four levels are all non-space/non-time levels of the universe and, as such, cannot be effectively described via the spoken or written word since, at the normal level of consciousness, our perception mechanisms are only spatial and temporal. Therefore, this model consists of two important groupings of energy levels. The first is a space-time construct that we may think of as an enlarged physical frame, and this is embedded or enfolded in a non-space/non-time construct which is interfaced via the transitional frame. Space and time seem to be properties of this embedding frame, just as mass and charge are properties of electromagnetic energy in the space-time frame. Events taking place in the non-space/non-time frame are thought to alter the metric of space-time and thus the corresponding event characteristics of that frame.

In this author's modeling, the space-time frame consists of two conjugate parts in a special mirror-type relationship to each other. Only one of these parts is presently well known to mankind; and man thinks that what he knows is all there is. It has been proposed by this author that substance functioning in the negative space-time frame consists of magnetic monopoles bound together to form atoms and molecules that travel faster than the velocity of light and are thus nonobservable directly by our five physical senses or by any of the present instruments of science. The radiation emitted by these atoms and molecules has been called magnetolectric energy, and it travels $\sim 10^{10}$ times faster than the velocity of electromagnetic radiation from the substance at the positive space-time level.³⁵ Table I gives some of the important corresponding characteristics of substance at at these two levels. Some of the quantitative aspects of the relationship between these two frames is only just now beginning to be studied by this author, and meaningful discussion must await future communications.

In the extreme relativistic limit ($v > c$), quantum mechanics predicts a spectrum of negative energy states.³⁶ Thus, the electromagnetic interaction allows a particle in a positive energy state to make a transition to one of a negative energy state and to cascade downward to lower and lower negative energy states while radiating unlimited quantities of energy.

If we think of these negative energy states as all being occupied by particles and allow one to make a transition to a positive energy state, then the

TABLE I

SPACE-TIME SUBSTANCE MANIFESTATIONS

	X		X*
1	Electric monopole	"MIRROR" RELATIONSHIP	Magnetic monopole
2	Forms atoms, molecules, etc.		Forms atoms, molecules, etc.
3	Coherence state I		Coherence state II
4	Positive mass		Negative mass
5	$v < c$		$v > c$
6	Electromagnetic radiation at c		Magnetolectric radiation at $c' \gg c$ ($\sim 10^{10}c$)
7	Positive energy states		Negative energy states
8	E increases as v increases		E increases as v increases
9	Positive time flow		Negative time flow
10	Gravitation		Levitation
11	Frequency ν_x		Frequency $\nu_{x^*} \sim 10^{10} \nu_x$
12	Faraday cage screening		Non screening by Faraday cage
13			Magnetic cage screening
14	I_E generates H		I_M generates E
15	Space I		Space II

vacant energy state appears as a hole and has all the properties of an antiparticle. Since the hole has a positive energy, it is thus observable for our physical sensory system and for all the devices we have built to extend its capacity. Because of this, we have detected this spectrum of antimatter. However, the sea of negative energy state particles is unobservable with such sensors and remain undetected. This author has proposed that these negative energy state particles are the magnetic monopoles that we have stalked so unceasingly at the physical level.³⁵ However, since they travel faster than light and have negative mass, they fall into the category of unobservables, as long as we are restricted to using physical dimension sensors. However, they do appear to be observables to other sensory networks developed in certain sensitive individuals, like clairvoyants.

For many people, science holds the keys to humanity's future. Looking into the past, they see times of hardship, darkness, ignorance and superstition--from which mankind is well delivered. Knowledge has lifted him and has moved him on his way towards dominion over the earth. Many of these people place value only on knowledge gained by analytically reductive means separated from emotional and intuitive cognition. They are concerned that talk of things nonphysical and unobservable is poor science and ultimately destined to lead us back into the "Dark Ages." To them, I say "Not so!" The term "nonphysical" is used here only as a vehicle of differentiation relative to what is presently known and physically sensed, and the term "unobservable" is only relative to the five physical senses and that kind of physics. After millenia of investigation, we may ultimately find that there is only one dimension and only one energy, but that it displays multifaceted matrices of characteristics that are separately discriminatable by multi-level networks in a well-developed sensory vehicle.

To ease the minds of such concerned scientific readers, we may phrase the result of equation 4 differently by looking at the chemical potential, μ , of a molecule at the physical level as influenced by forces manifest in these proposed various levels of the universe. It is well known and accepted that changes in the chemical potential of a molecule determine the potential future events for that molecule. Further, the spatial variation of μ (i.e., $\partial\mu/\partial x$) determines the kinetics of attainment of that future potential. For living organisms to be influenced in any observable way (by using physical senses or by companion physical instruments) by either chemical or mechanical means, the effect must ultimately be manifest at the chemical potential level of those molecules that stimulate cell growth or repair or the degeneration of invading organisms. In the most general cases, the chemical potential, μ^j , of the j -th species in the environment is given by:

$$\begin{aligned} \mu^j = & [\mu_0^j + RT \ln \gamma^j C^j] + [Z^j e \phi - \frac{E^2}{8\pi} \frac{\partial \epsilon}{\partial c^j}] + pV^j + \dots + \\ & + \bar{F}(\Delta, \frac{\partial \Delta}{\partial x}, \dots) + \dots \end{aligned} \quad (5)$$

Here, the first two terms to the right of the equal sign relate to the chemical state of the local system, the next two relate to the electrical state ($E = \partial\phi/\partial x$), the next to the pressure or stress state, the missing terms are due to other field interactions (magnetic, gravitational, etc.) and the final term is due to a new potential, Δ , associated with a nonelectromagnetic substance that is the bridge via which energy fields from the negative space-time level couple into the positive space-time level. This has been termed the "deltron" potential by the author.

In turn, there will be a chemical potential, μ^j , of a molecule at the negative space-time level; this potential contains a number of field contributions, one of which is thought to be directly influenced by the Mind level of the universe, and a deltron potential term which will be directly influenced by the positive space-time level. In this fashion, coupling relationships exist between all the different levels of the universe, so that everything is interconnected. An impulse at any level creates a set of waves rippling at all levels of the universe.

Necessary Components of the Healing Mechanism

From the foregoing, we can gain the idea that man is a multidimensional Being, functioning on many different levels of Nature simultaneously. He is mostly unaware of these levels of self and cannot visualize the concept that he has an extended energy structure that interconnects and integrates his Beingness with seemingly separate localizations of Beingness. We are so chained to our view of reality as perceived by the five physical senses that we are unable to give credence to our true nature. We must come to realize the potential of man as expressed by equation 4 and to recognize that, if man's energy structure is perturbed at any one of the indicated levels, ripples of effect flow out in all directions to produce corresponding perturbations at all other levels. However, the magnitude of the effect and the time of manifestation of the effect at another level will depend upon things like the intensity of the original signal, the conductivity of the medium of the original signal and the degree of coherence of wave structures at the boundaries between levels.

A body structure at the physical level is stable and sustained by a type of chemical homeostasis or chemical pattern which, in turn, is maintained stable by a pattern of electrostatic potential and other specific positive space-time patterns of potential (e.g., deltron). The positive space-time patterns of energy are maintained stable by specific negative space-time patterns of potential, which are themselves maintained stable by patterns at the mind level of the universe. At this point, it is useful to recall Wolf's law of bone structure which tells us that if a nonuniform stress is applied to a bone by the body for an extended period, the bone will grow new trabeculae (a type of bone girder) in the exact locations needed to support this nonuniform stress distribution. The process probably occurs by the physical strain field interacting with the electrostatic field of the system, producing changes there, and these changes cause ions and molecules to be transported to specific locations and to be agglomerated into specific tissues and structures that comprise the trabeculae. These changes can all come about by a response to the strain energy contribution to the chemical potential of the molecules illustrated by equation 5.

Carrying this idea further, mental field patterns can be thought to act like a stress influencing the field term of the magnetochemical potential of molecules, μ^j , at the negative space-time level. In turn, via the deltron potential link, this pattern produces the required correlate at the positive space-time level in the μ^j and thus in the structure of the physical body.

We must note that the removal of the body stress that created a certain pattern of trabeculae in a bone does not lead to the instantaneous dissolution of these trabeculae. Rather, they may disintegrate or dissolve very slowly (under the proper exercise) because of the molecular kinetics involved, and they may maintain the body in a distorted shape for a very long time, even though the initial physical cause is removed. The same situation occurs for physical structures

generated by emotional or mental stress patterns. Further, since these inharmonic patterns scatter energy from the main flow stream at the various levels already discussed, the removal of the anchoring patterns at the two ends of the chain will release the intervening pattern links and more energy will be available for the organism's functioning.

The foregoing leads quite naturally to a perspective on healing; i.e., that pathology can develop at a number of levels and that healing is needed at all of them to restore the system to a state of harmony. The initial pathology begins at the level of Mind and propagates effects to both the negative space-time and the positive space-time levels. We then perceive what we call disease or malfunction at these levels and try to remove the effects by a variety of healing techniques. The best healing mode is to help the individual remove the pathology at the cause level and bring about the correction by a return to "right thinking." The next best healing mode is to effect repair of the structure at the negative space-time level. The next best level of healing is that which medicine practices today, wherein they effect repair of the structure at the positive space-time level. Since the energy structures at these different levels are coupled, repair at a lower level will still produce some feedback modification of energy structure at a higher level. However, if harmony is not restored at the higher level, then a force will continue to exist for pathological development in the energy structure at a lower level. Of course, this force is basically like a thermodynamic potential to produce change, so the effects may be manifested or materialized in a very different form depending upon what alterations have already been made to the energy structures of the positive and negative space-time frames. The closest analogy to this can be found in the field of "phase equilibria" of materials. If you heat a complex alloy containing a number of chemical constituents to a higher temperature so that it melts, then by cooling it again you produce a thermodynamic driving force for a phase change; i.e., to one of several possible solid forms. By making very slight but specific modifications in the chemistry or cooling rate or other variables in the process, it is possible to change the type of solid phase that initially develops and the crystalline form that results.

When one person is healing another, the healer uses his extended energy structure to channel into the one to be healed the needed frequency components of the needed energy at the particular dimensional level. Since the particular pathology is represented by a particular energy pattern and all patterns are formed by the superposition of waves, then a pattern can be altered or completely eradicated by the input of the appropriate wave components at the appropriate intensity level. To do this effectively, a number of conditions need to be satisfied: (1) one must be able to generate or tap the needed wave components of the requisite type, (2) one must be able to tap these wave components from his extended energy structure at the specifically needed ratios of relative intensities, (3) one needs to tap the requisite correction energy pattern at a high overall intensity, so that the healing needed is of short duration, (4) one needs to be sharply attuned to the one to be healed, so that these energy components can be brought into his extended energy structure without scattering losses and (5) one needs to have the confidence of the one to be healed, so that the patient's fears or doubts don't mentally distort or undo the healer's efforts.

To understand how this is possible and to gain an appreciation for the implications of such healing events, let us consider the necessary structure of an electrical system designed to deliver electrical energy to a load over a broad frequency range with a specific intensity distribution of frequencies. The

individual components in the system will be resonators having a restricted band width of frequencies and restricted output intensity. Thus, to obtain the required frequency range, a number of different kinds of resonators would need to be coupled in series. To obtain the required output intensity distribution, many resonators of the same kind will need to be coupled in parallel. Finally, in order that this energy reaches the load, the supply must be properly coupled or impedance matched to the load. Such a situation is illustrated in Fig. 2. The same type of situation must obtain when we are using biological resonators in the healing mode. The implication is that the extended energy structure of the healer must include a number of different biological resonators, functioning on basically different but overlapping frequency bands, integrated into a functioning energy system. Further, as the healer expands his consciousness to resonate over a larger frequency range and builds himself to transmit energy at higher intensities, the more effective will he become as a healing channel.

In the framework of this author's model, man appears as a Being whose primary level of existence is at the non-space/non-time levels of the universe and who has placed himself in a space-time vehicle of consciousness for the purpose of growing in awareness of the True Self and of generating coherence in the True Self. Our perception mechanisms at the space-time vehicle level lock us into a very narrowly restricted view of reality and the Self. Disharmony created by the ego at the deeper levels of self materializes as error or disease in the space-time vehicle, which thus serves as an indicator of error created at a primary level. Self-healing or healing by another involves energy coordination at a variety of levels and teaches us that the sensory apparatus of the space-time vehicle perceives only the world of appearances and has no knowledge of reality. It teaches us that the space-time vehicle is not Life, but only a simulator of Life.

An Interdimensional Antenna System of the Body

A body of information exists that points to the presence of an antenna system in the envelope of the human body, via which the body communicates with its external environment. We will discuss some evidence later. Other information, largely gathered from the field of acupuncture, points to the presence of an antenna system near the surface of the human body, via which the internal environment is in interactive communication with a matrix of points on the body surface. It is felt that this antenna system may be located not in the positive space-time frame of the body, but rather at the negative space-time level. However, electrical correlates are to be found on the surface of the body at the location of the acupuncture meridian and point network, illustrated in Fig. 3. These electrical correlates are thought to be the mapping transform of the negative space-time antenna system and are without evidence of any structural differentiation from the surrounding cells, because it is the bridging deltron potential changes that produce changes in the electrochemical potential, μ^j , of the ions of tissue fluid that eventually leads to the electrical manifestation.

To proceed further, we need to develop an understanding of (a) conventional antenna theory, (b) studies relative to external radiation fields, (c) studies relative to internal radiation fields and (d) some characteristics of deltron fields.

(a) Aspects of Antenna Array Theory

In everyday experience, we are all familiar with the TV antennas

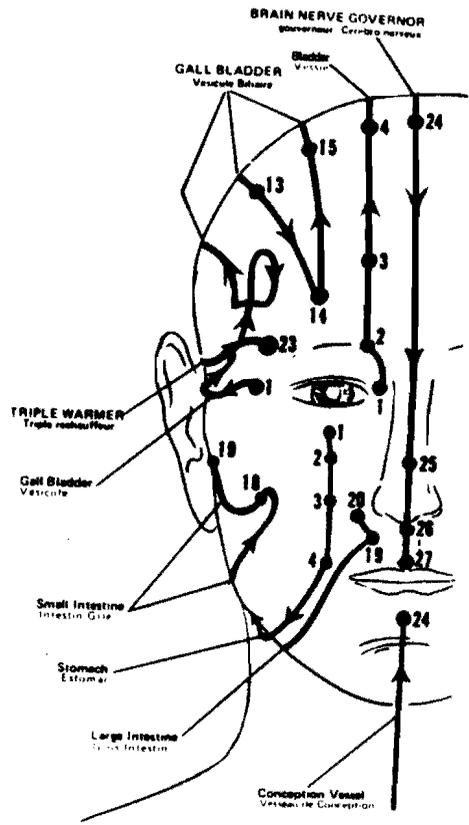
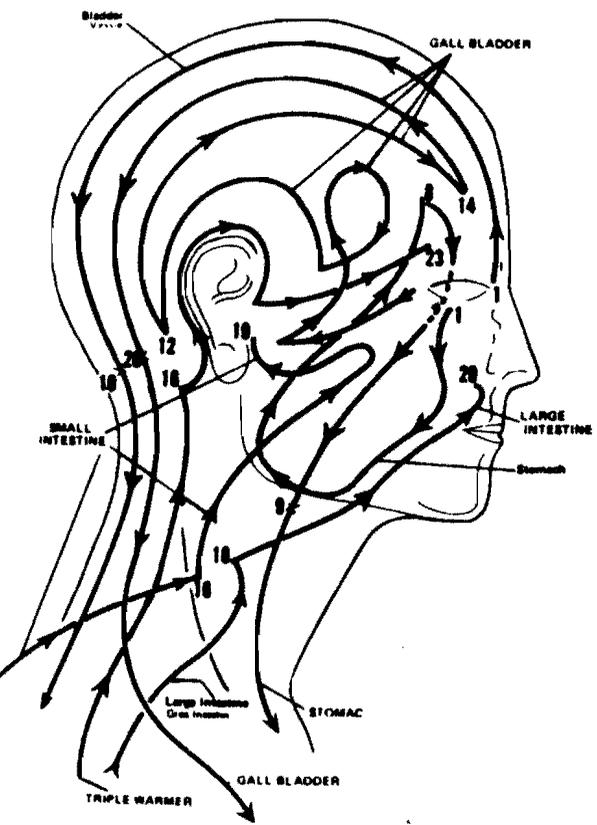
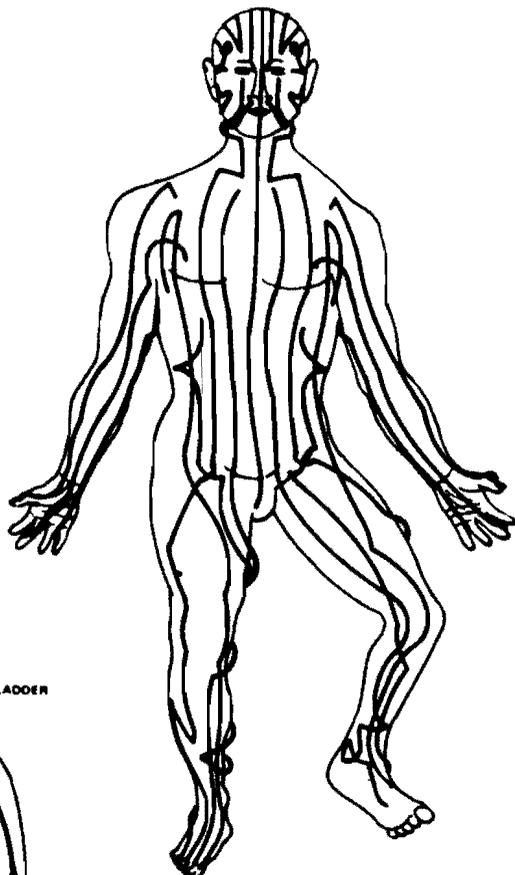


FIGURE 3

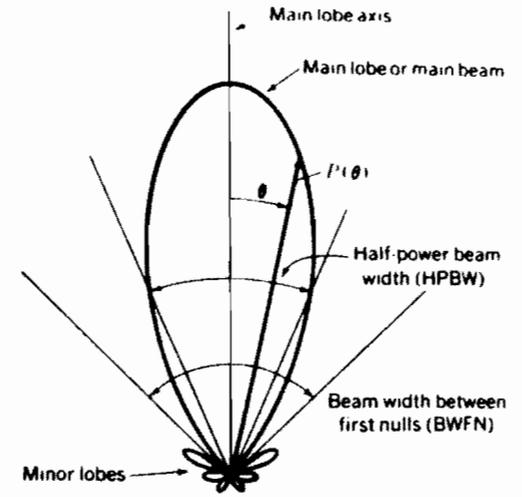
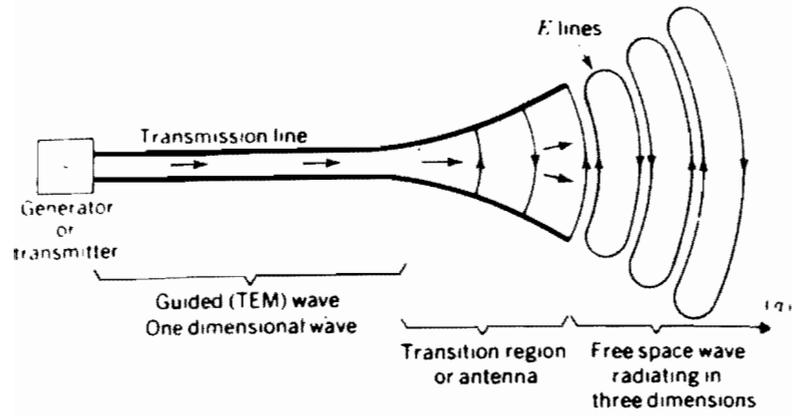
perched on top of our neighbors' houses. These are receiving antennas, but transmitting antennas are very similar. These are very simple antennas consisting of only a few radiators (the long strips of metal perpendicular to the main shaft). When one focuses attention on electromagnetic transmission lines or waveguides, the design is such as to minimize radiation; however, antennas are designed to radiate (or receive) energy as effectively as possible.

For illustration purposes, a two-wire transmission line is shown in Fig. 4a, connected to a radio-frequency generator (or transmitter).³⁷ Along the uniform portion of the line, energy is guided as a plane transverse electromagnetic (TEM-mode) wave with little loss. The spacing between the wires is assumed to be a small fraction of the wavelength, λ . At the right, the transmission line is opened out. As the separation approaches the order of a wavelength or more, the wave tends to be radiated so that the opened-out line acts like an antenna which launches a free-space wave. To be more explicit, the region of transition between a guided wave and a free-space wave may be defined as the antenna.

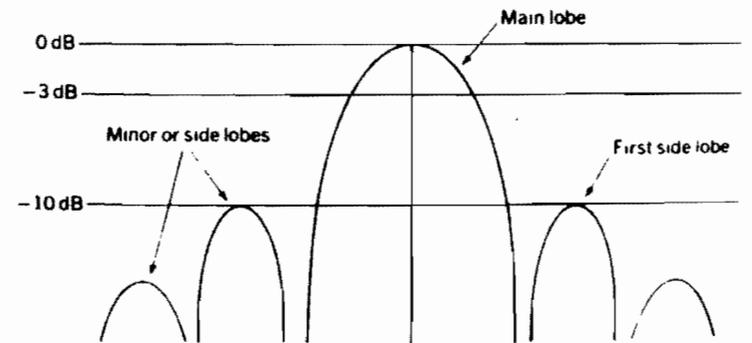
If the wires separate gradually, as in Fig. 4a, to a maximum separation of $> \lambda$, the arrangement will be an efficient radiator with maximum power beamed to the right as suggested. One can modify the antenna to produce the V or the simple dipole as illustrated in Fig. 4b and 4c, respectively. The transition from a guided wave to a space wave is more abrupt with the dipole antenna, and there is more stored energy in the vicinity of the dipole antenna.

The response of an antenna as a function of direction is given by the antenna pattern. By reciprocity, this pattern is the same for both transmitting and receiving conditions. The pattern commonly consists of a number of lobes, as suggested in Fig. 5a. The lobe with the largest maximum is called the main lobe, while the smaller lobes are referred to as the minor lobes or side and back lobes. If the pattern is measured sufficiently far from the antenna so that there is no change in pattern with distance, the pattern is the far-field pattern. Measurements at lesser distances yield near-field patterns, which are functions of both distance and angle. The pattern may be expressed in terms of the field intensity (field pattern) or in terms of the radiation intensity (power pattern). Figure 6a is a power pattern in polar coordinates.

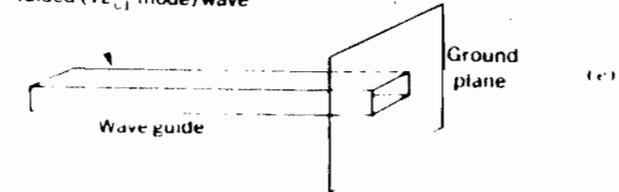
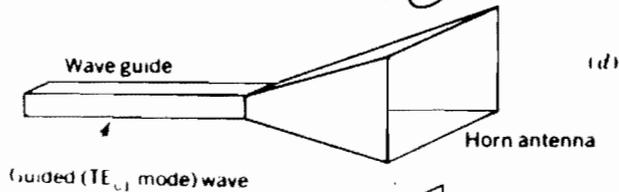
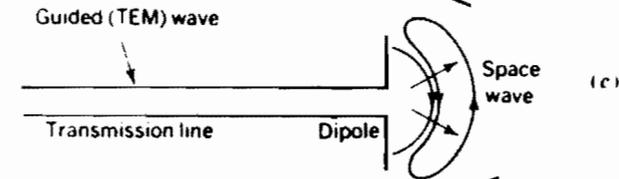
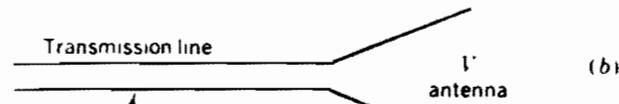
When we consider a large array of such radiators, we find that the factors which produce a major influence on array performance includes spatial distribution and orientation of the individual radiators and their relative excitation in amplitude and phase. The field and power patterns of the array may be theoretically determined by superposition principals after we have first calculated the electric and magnetic potential functions in space for the individual elements depending on the source conditions for an element. When one considers the case of a system of discrete, identical radiators, the overall pattern is seen to be the product of two expressions: the element factor and the array factor.³⁸ In connection with linear arrays wherein the elements are equally spaced along a straight line, as in Fig. 7a, one can develop concepts of pattern shape, beam width, scanning and directivity. When the elements are regularly spaced in a two-dimensional array, as in Fig. 7b, the same concepts are important and the scanning, such as illustrated in Fig. 8, of a pencil beam occurs in two angular coordinates. Finally, one can also construct a regular three-dimensional lattice of elements yielding certain unique array properties. Perhaps the most important factor for our consideration is the generation of a single directed beam, either fixed or scanning, as a result of the proper phasing and amplitude of the



(a)



(b)



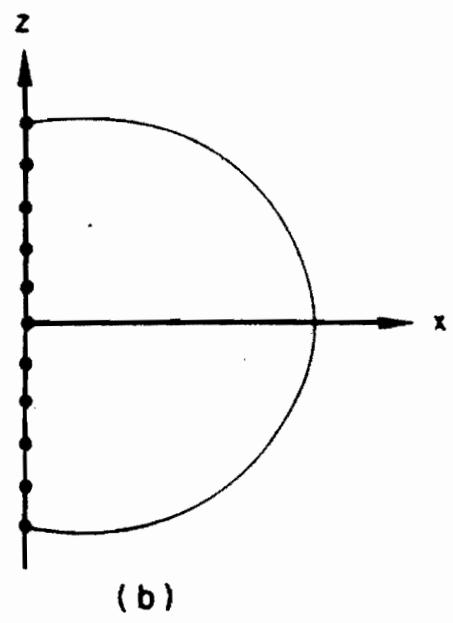
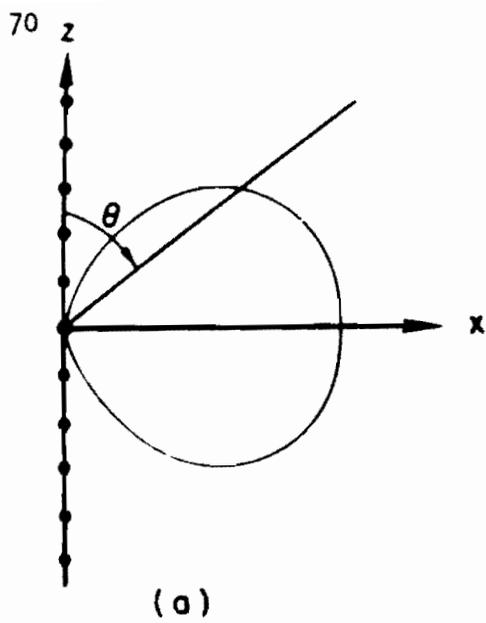


FIGURE 6

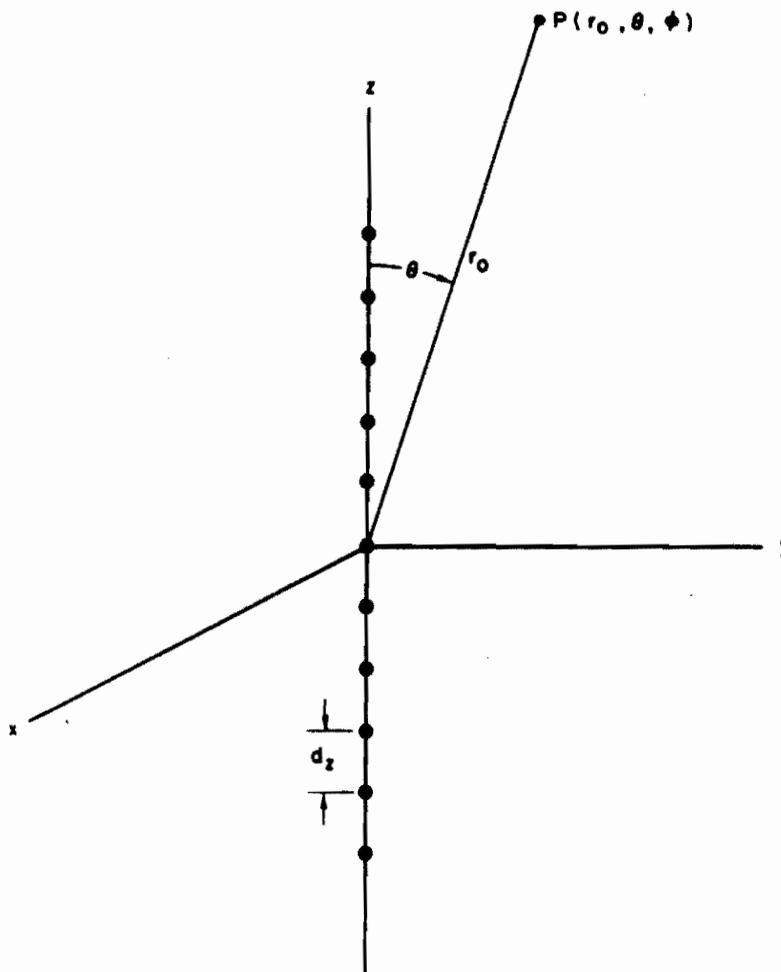


FIGURE 7a

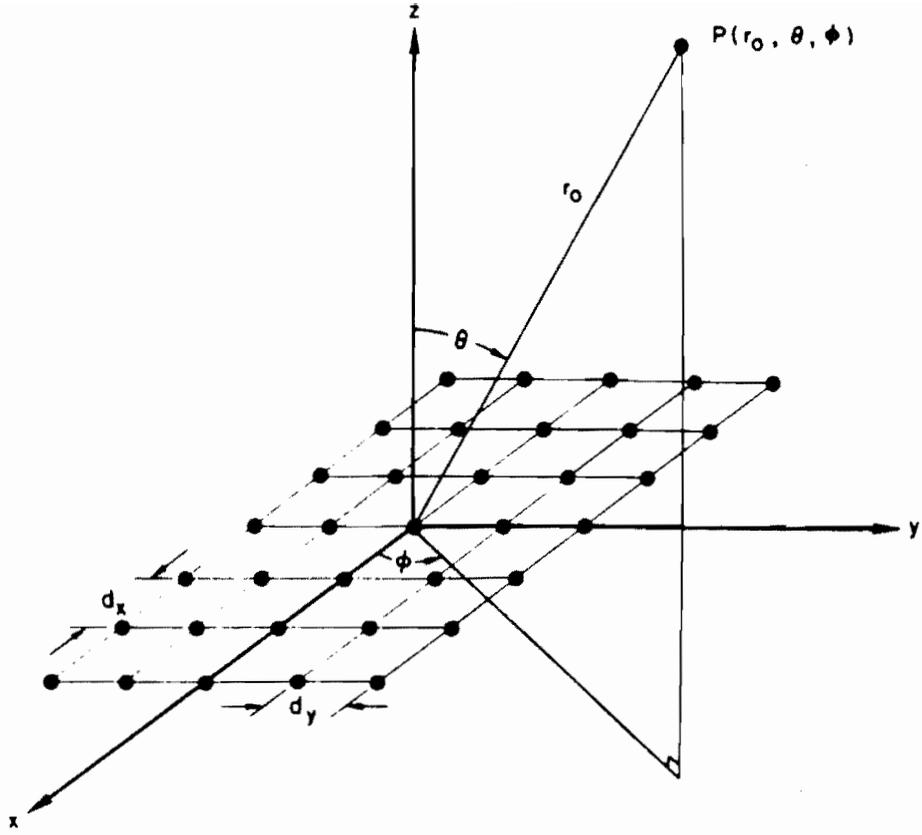


FIGURE 7b



FIGURE 8

electrical current source at the individual elements of the array.

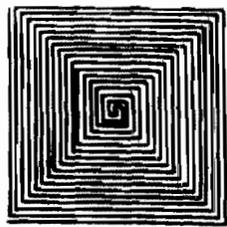
Further study shows that real radiators "couple" to each other and that the effects on the array performance caused by mutual coupling are significant and extensive. If mutual coupling were absent, the element pattern would be identical with the pattern of an isolated radiating element. However, for certain radiators and for close spacing, the coupling is sufficiently strong that the parasitically-induced currents from the neighboring elements cause the radiation pattern, and sometimes the polarization, of an element in the array environment to differ markedly from that of the isolated element.

The input impedance to the element in the array can also be quite different from the value for the isolated element. Perhaps a more important consequence is that the value of the input impedance changes as the array is scanned through different angles (the actual antenna radiation or receiving efficiency varies as the scan angle changes, and this can cause transmitter or receiver detuning and high-power failure). In a receiving antenna, the power received by the array will depend on the angle of incidence of the incoming wave.

Once the pattern properties are known, it is necessary only to define the element impedance to completely specify the electrical performance of an antenna. The impedance of a radiating element has a real part (mathematically) called the resistance (or conductance) and an imaginary part (mathematically) called the reactance (or susceptance). The real part is related to the actual power radiated (or received), and the imaginary part is a measure of the actual energy stored in the higher-mode fields in the immediate vicinity of the antenna. Both influence the mismatch between the antenna and its power source, and so affect the antenna efficiency.

In arrays in which each element is fed by a separate waveguide, or in which the array is excited by means of a corporate structure feed, it is customary to match the input impedance of each radiating element as well as possible. The element impedance will change if the antenna environment is varied. As this impedance changes, the currents on the element may become redistributed and alter the radiation pattern. Depending on the dipole element size, L , compared to the wavelength, λ , the radiation impedance changes from an inductive to a capacitive component as L/λ varies from 0.65 to 0.70, and thus the impedance is purely resistive at some unique value in this range (yields maximum transmitted or received power).

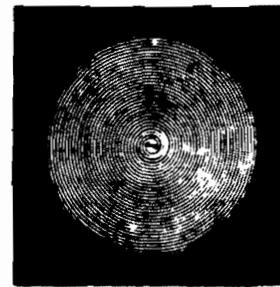
When slots in waveguides are used as radiating elements, each slot, depending on its orientation and location, can be responsive to only the transverse magnetic field component of the feed waveguide, to only the longitudinal magnetic field component or to both. An array whose radiation is elliptically or circularly polarized can be designed from crossed slots--circular polarization of one sense for a wave traveling in one direction in the waveguide and circular polarization of the opposite sense for a wave traveling in the reverse direction. Along this line, planar spiral elements or conical log spiral elements, such as shown in Fig. 9, are members of the class of broad-band radiating elements. Extreme wide-band performance is obtainable from individual antennas. This is lost when the elements are placed in a planar array but is preserved when the array is formed in an angular fashion with all the elements emanating radially from the feed end of a waveguide (obvious possibilities for the human body). For spiral elements of diameter, $D < \lambda/4$, the gain is low but increases considerably as



(a)

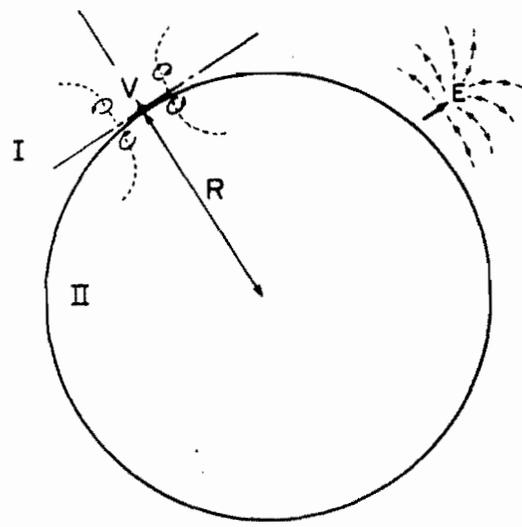


(b)

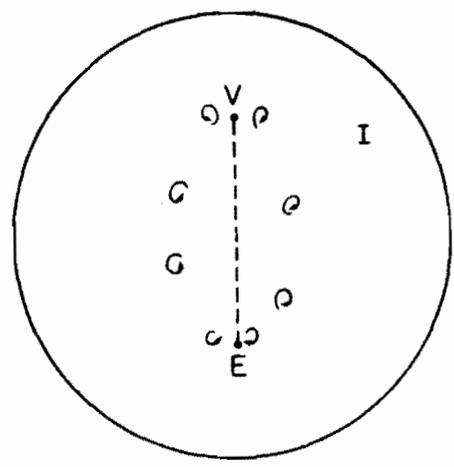


(c)

FIGURE 9



(a)



(b)

FIGURE 10

$D/\lambda \rightarrow 1$. The energy traversing the spiral outwards from the origin will be radiated as circular polarization, let us say clockwise. The percentage of the energy radiated on the "first pass" is related to the physical diameter of the spiral. The energy which is not radiated is reflected and directed back to the origin (or source). Of this reflected energy, some is again radiated (but with the reverse or counter-clockwise phase) and the remainder appears at the input terminals. At this point, the spiral is radiating energy of a circularly polarized nature but in the counter-clockwise sense. The net effect is that the resultant field will be elliptically polarized or, in the extreme case in which $D < \lambda/4$, essentially linear. By loading the free end with resistors, the second wave can be greatly altered.

The incorporation of active solid-state devices into the elements of an antenna can lead to reductions of size, power, system noise, amplification, switching, frequency conversion, modulation, etc. Recently, active arrays have been used for the rectification of microwave power. Here, point contact diodes are used to terminate half-wave dipoles, which are spaced approximately $\lambda/2$ from each other. Such an antenna (called a rectantenna) consisting of 28 dipole-diode elements was tested at 2.44 GHz. The capture and conversion efficiency was about 50% for outputs between 1.5 and 6 watts, a significant result indeed!

In closing this section, it should be noted that one can see the possibility of a broad-band, high-gain human body antenna system capable of producing a directed scanning beam of circularly polarized radiation, but one can also see the possibility of a local human auric field as the reactive impedance portion of the antenna system power pattern. One can imagine how dysfunction of some of the array elements can alter the impedance of the system and lower both the transmitted power and the received power.

In the human body, the antenna elements are most probably the acupuncture points, whose loci lie along the meridian system illustrated in Fig. 3. The corporate feed structure for the antenna system appears to be the autonomic nervous system (sympathetic nervous system). Each nerve axon is surrounded by a myelin sheath forming a spiral structure and acting as a waveguide to conduct a traveling spiral wave to its end-point just under the surface of the skin. Since recent studies indicate that about 600,000 linear miles of autonomic nerve fibers exist in the mature human, this system can constitute an antenna system of exquisite richness with respect to information transmission and reception.

(b) Studies Relative to External Radiation Fields

The most common example in this category comes from the area of dowsing. In particular, the recent work of Harvalik²⁸ is relevant. His subject, Mr. de Boer, showed extraordinary signal sensitivity as he walked over a test course with a "Y" rod: a weak dowsing response was obtained even when the electrical current in a wire several feet underground was reduced to 10^{-6} amperes (or a magnetic field strength at hand height of 10^{-10} gauss--the earth's field strength is 0.5 gauss). Mr. de Boer experienced 100% signal suppression when his heart side faced the positive electrode and 100% incidence of signal when his heart side faced the negative electrode (as he walked over the wire location). No signal suppression was observed when metal rods were attached to the left forearm of the dowser, but suppression remained when the rods were attached to the right forearm. After lunch, Mr. de Boer's sensitivity dropped by a factor of 10^3 (due not to food intake but to the influence of the sun's position--early morning and late afternoon is best). Mr. de Boer's high sensitivity occurred after he drank 2 glasses of water (it was increased by a factor of 5 to 10).

He responded to A.C. signals with fairly uniform sensitivity over the entire range from 1 Hz to 1 MHz. Electromagnetic wave generators operating in the 7 m and 5 cm bands (1 watt and 0.2 watts, respectively) were used to show that he reacts to the magnetic vector of the E.M. wave and to horizontally polarized E.M. radiation. Dowsing reaction signals were obtained regardless of which side of his body the beam struck and whether it interacted with him directly or by reflection.

When a metal belt was attached to the dowser, covering the adrenals, no dowsing signal was observed as he walked through the high-frequency beam. An identical effect was observed when a metal crown was placed around the dowser's head, even though the beam reached his waist, which was not shielded by a metal belt. However, when the dowser was equipped with both a metal belt and a metal crown, he not only obtained a dowsing signal when he crossed the beam (waist high), but he seemed to be even more sensitive to the high-frequency field of the beam.

Most recently, Mr. de Boer, using his "Y" rod in the Washington area, has been able to stand on a spot and, by rotating himself, locate the angular direction from the spot to specific radio stations, being given only their operating frequency. Such results can be readily checked by using a transistor radio set to the frequency and rotating the radio (minimum signal strength occurs perpendicular to the transmission beam).

Maby³⁹ has pointed out that one of the most convincing proofs of the reflex physiological nature of traditional radiesthetic and dowsing responses is to be seen in the consistent numerical relationship between a given physical stimulus and the neuromuscular response thereto, when the former is randomly varied. It is found that the radiesthetic reactions nicely obey the classical (logarithmic) law discovered by Weber and Fechner relative to ordinary physiological sensations. Whereas, if the response were psychological (e.g., imaginary or auto-suggested), no such precise relationship on numerical lines would result.

In ordinary field dowsing, it is always discontinuities in the generalized surrounding medium and any fairly sharp changes in the local field that cause the traditional rod reactions. In a state of rest, nothing much normally happens. One has to move through the local "field of manifestation" of the selected objective or else the latter has to move or alter in strength or polarity. Otherwise, to get clear responses, it is necessary for the radiesthetist to be confronted by, say, intermittent alternating currents, pulsating magnetic fields, impinging corpuscular radiations, etc.

There are basically two categories of dowsing, (1) local field dowsing and (2) remote dowsing. In the former, a sensitive human takes a rod or pendulum out into the field and obtains a motion reaction to a spot under the earth while he is located over top of it. He could be walking, riding in a car, flying in an airplane, etc., but he still reacts when located over the spot. Remote dowsing has three subclassifications: (1) remote field dowsing, (2) map dowsing and (3) information dowsing. Remote field dowsing occurs when an individual obtains the same type of information while sitting in his truck on the edge of the area being dowsed. Map dowsing occurs when he obtains the same information as in local field dowsing but he is away from the location he is dowsing, perhaps sitting at home by his kitchen table, and working off a good map of the area to be dowsed. Information dowsing has many similar aspects to map dowsing, except that no map is used. Here, specific questions are asked and the answers coded by the nature of the wand or pendulum motion (Edgar Cayce's procedure could be considered as a very exalted form

of information dowsing).

The subject called "Vivaxis"^{27,40} contains components of the dowsing category, but it involves not only information transfer but also energy transfer at power levels. In studying the teachings of this subject,^{40,41} one finds that all living organisms have an antenna system built into their structure, via which they exchange energy and information with their environment. In the human species, and probably in all other species, one major antenna system is the acupuncture meridian and point network. At least one main component of the human energy needs comes from an external energy source, and the well-being of the entity is very dependent upon the continuous supply of this energy. This external energy source for an individual has been labeled his Vivaxis, and its location appears to be at the site of one's birth in space. Thus, a two-way energy link exists between the fixed Vivaxis source and the moving human on the earth (see Fig. 10). Such an orientation, altitude and distance tracking might function in a manner very analogous to that used for aircraft under the title TACAN.

This Vivaxis energy source appears to be an energy vortex operating at the negative space-time level, and the amount of energy received for utilization by the energy system of the human depends upon (1) the transmitting capacity of the V-source as a function of time, (2) the propagation characteristics and disturbances of the intervening media and (3) the receiving characteristics of the human antenna system. The proper functioning of these antenna elements is essential for the reception of the correct frequency spectrum of energy at a high enough level to provide proper functioning of the internal organs of the body. Thus, many of the Vivaxis techniques deal with correcting malfunctions in these array elements; making these corrections has, in turn, produced removal of paralysis, crippling features, clouded thinking processes, etc., leading to greatly altered behavior and personality.⁴¹

The subject of Vivaxis is concerned with the influences (chemical, field, radiation, etc.) and behavioral particles (shock, drugs, hypnosis, meditation, etc.) that either deteriorate or enhance the array element functioning.⁴¹ It is also concerned with the magnetic polarization of bone and tissue structure (at the negative space-time level) and with the propagation of a helical wave field which is strongly polarized when a person is lined up towards his Vivaxis. It deals with receptors on the head and body, especially with communication centers on the head (a grouping of receptors). All chronic troubles are thought to be traceable to disrupted code receptors (and thus neurons) in the cortex of the skull (and in the hands and feet, where reflexes terminate). Finally, it deals with the creation of experimental Vivaxes, with the effects of chemical combinations on controlling the V-field and with the effects of wave linkages between one person and others or between the person and substances, etc. Some data indicate a disruption (pattern fluctuation) of V-field just prior to major earthquakes, giving some support to the theory of its primarily negative space-time character.⁴⁰

In addition to the foregoing, the author's studies in the area of biomechanical transducers²⁹ and other studies on kinesiology⁴² attest to a strong interaction between a body antenna system and the environment.

(c) Connection with the Inside of the Body

Abundant studies have been carried out to show that the stimulation of specific surface acupuncture points creates a stimulation in, and alteration of, certain body organs. Likewise, a direct stimulation of these body organs causes a

response in certain elements of this skin network.⁴³ A more profound effect is what the Soviets call "the semiconductor effect,"^{5,12} wherein they measure the difference in skin resistance, $\Delta R = R_L - R_R$, between an acupuncture point on the left side of the body, R_L , and the analogous point on the right side, R_R . As ΔR increases from zero, a growing pathology for the particular meridian, especially at the corresponding body organ or gland, is indicated. Motoyama has utilized this effect to develop a potentially amazing medical diagnostic technique.⁴⁴

Motoyama's technique involves applying electrodes (with electrode paste) to the ends of 14 meridians (the Japanese system recognizes two more meridians than does the Chinese) on the fingers and toes, as illustrated in Fig. 11. He uses a single large indifferent electrode on the wrist and consecutively applies a 3-volt D.C. battery between this large electrode and one of the 28 at the ends of the meridians. He measures the initial current, i_0 , and the final current, i_∞ , of the typical current wave shown in Fig. 12 and stores these values in a small on-line computer. Mathematical analysis of the current transient in the skin electrical equivalent circuit, which is shown in Fig. 13, gives these important currents in terms of the resistances and capacitance of the skin as:

$$i_0 = V/R_1$$

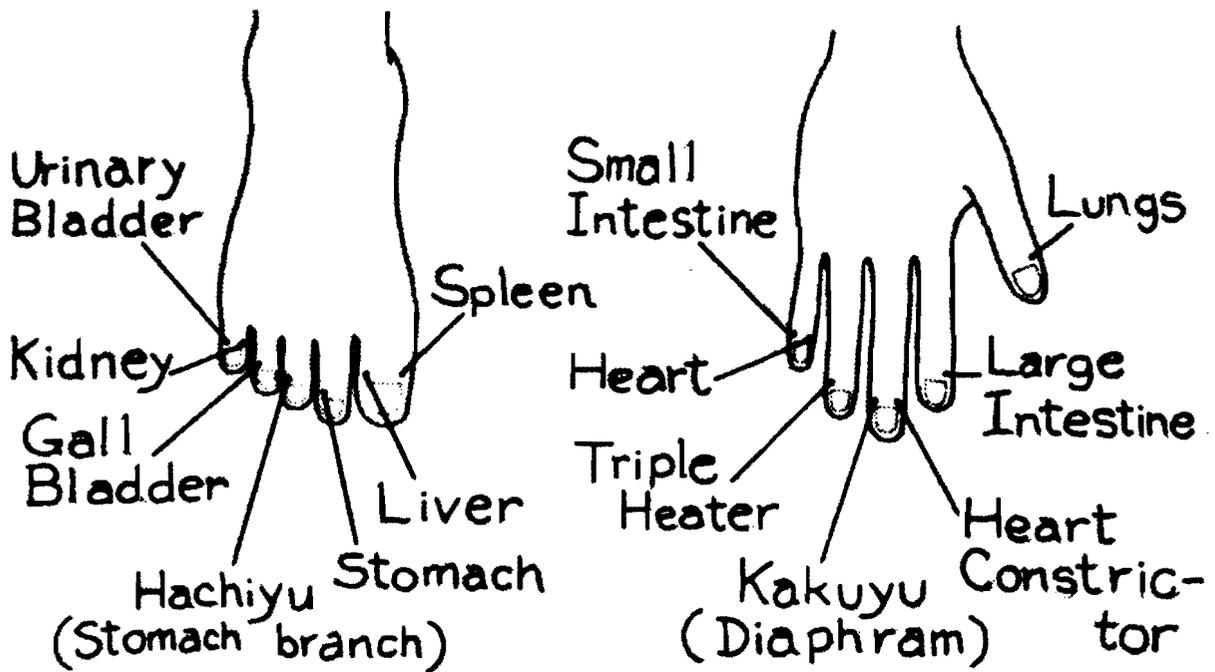
$$i_\infty = V/(R_1 + R_2)$$

$$\tau = R_1 R_2 C / (R_1 + R_2)$$

where τ is of the order of 10 to 50 μ sec. Thus, such measurements on the left side and the right side of the body can be used to evaluate ΔR for a given meridian. Using this technique, within as little time as seven minutes, all measurements can be made and the computer can print out the standard deviation of ΔR values for all the meridians of the body. When the values fall within the allowed ranges, they are printed out in black; when they lie in the range > 1.21 or < 0.5 , they are printed out in red, indicating that the autonomic nervous system is in an unstable or excited state. When $\sigma_{\Delta R} > 1.21$, the whole body is excited, often signaling the beginning stage of disease. When $\sigma_{\Delta R} < 0.5$, the whole autonomic nervous function is reduced, generally through a chronic disease.

As an addendum to the above, it has been noticed during acupuncture that, when a needle is placed in a point to be treated, a suction-like or muscle contraction force holds it in against mild pulling pressure. When the treatment has been completed, the needle is automatically released and it can be very easily withdrawn. In addition, we need to recall that acupuncture treatment utilizes the following techniques: pressure, chemicals (moxa), needles (pressure plus electricity), electric current and laser light pulses (which generates electrical stimuli). We will see how these fit into a consistent explanation given below.

What does all the foregoing mean? The answer, I think, lies in first realizing that the stratum corneum, the thin layer of outer skin, is a permselective membrane offering a different resistance to the flow of positive ions than to the flow of negative ions through it. Thus, if the surface potential of a point is anodic (negative ions flowing out, positive ions flowing in), the value of R is different than if the surface potential at the point is cathodic (negative ions flowing in, positive ions flowing out). Of course, the resistance of this membrane will decrease as the ionic concentration or the ion mobility of the membrane increases (for constant water content).



Seiketsu of each meridian

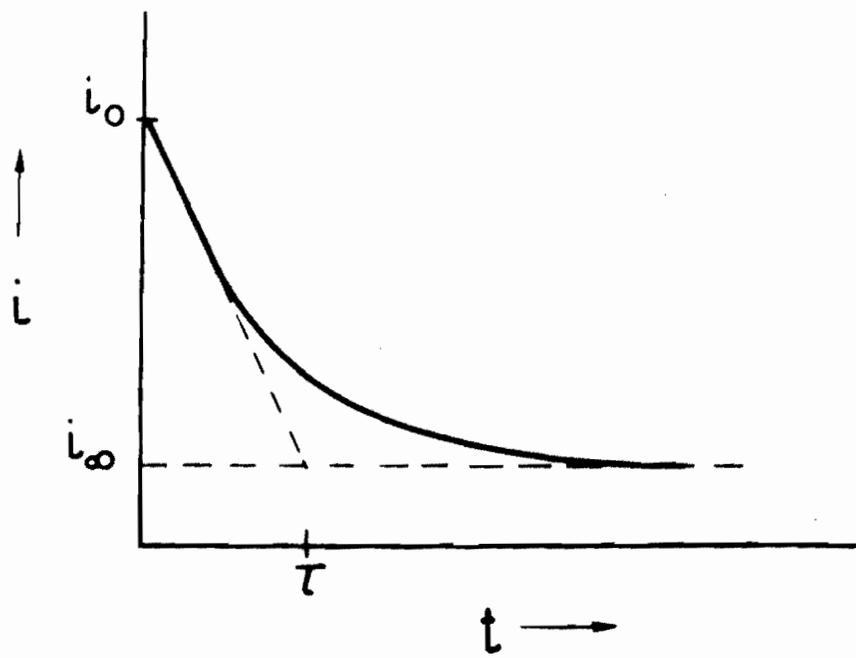


FIGURE 12

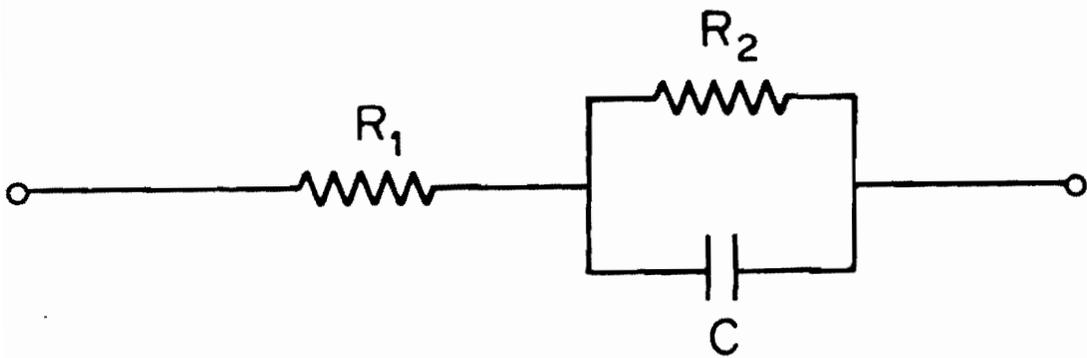


FIGURE 13

For the Motoyama experiment, if the indifferent electrode is either anodic or cathodic, we have, respectively, $R_L = R_A(C_L)$ or $R_L = R_C(C_L)$ and $R_R = R_A(C_R)$ or $R_R = R_C(C_R)$, so that $\Delta R = R_L - R_R \neq 0$ if $C_L \neq C_R$ (here, C_L and C_R are the tissue ionic concentrations of the left and right sides of the body at the points.). For the Soviet experiment, in which resistance is measured between the two acupuncture points in one direction and then in the reverse direction, we have $R_L = R_A(C_L) + R_C(C_R)$ and $R_R = R_A(C_R) + R_C(C_L)$, so that $\Delta R = R_L - R_R \neq 0$ if $C_L \neq C_R$. Further, we should note that, if a difference $C_R - C_L$ exists, this will lead to an osmotic pressure difference between the points given by

$$\Delta \pi = RT \ln (C_L/C_R).$$

In addition, it has been noticed that one often finds an electrical potential difference $\Delta \phi = \phi_L - \phi_R$ between such points, so that joining them leads to a current flow.

All of the foregoing influences can arise due to an imbalance of the electrochemical potential, μ^j , of the tissue fluids between the left side and the right side of the body. Equation 5 shows us that a chemical, an electrical and a pressure counterpart should be expected. In addition, a magnetic counterpart should be anticipated as well. We shall see that it has been observed very recently. If we look at acupuncture treatment, we see that the application of a pressure or a needle changes $\Delta \mu$, the application of chemicals (moxa) changes $\Delta \mu$, the application of electric current pulses changes $\Delta \mu$ and the application of laser light changes (by changing the ground state term μ in equation 5 and by producing electric current via a photoelectric effect).⁶ In addition, since μ^j contains a term associated with stored magnetic energy, we should expect that the application of small magnets to acupuncture points may be effective in restoring the body to a condition of balance and health.

The argument developed here points to the postulate that pathology in the body at the physical level manifests as a change, $\Delta \mu_{RL}$, in the electrochemical potential of the tissue fluid molecules of the stratum corneum (perhaps a tissue fluid pH change occurs also). This must be caused by a left-to-right condition of imbalance in the autonomic nervous system. But how could such an asymmetry occur in this system, since no apparent polarities exist at the electromagnetic level? However, such polarities do exist in the biomechanical transducer measurements of the body, which are thought to deal with magnetoelectric energy at the negative space-time level.³⁵ If an imbalance (developing pathology) occurred at this level, as suggested in section 3, then it would produce an imbalance in the deltron potential between the left and right sides of the body. Thus, to restore thermodynamic equilibrium for μ^j , changes in C^j , p and ϕ will occur between the left and right sides of the body.

In closing this section it is worth noting that, if the fibers of the autonomic nervous system acted as waveguides for circularly polarized electromagnetic or deltron waves, they would radiate the skin at the locations of the acupuncture points and very likely reduce the local measured resistance without causing any histological change in the cells at that point. This might account for (1) the lack of any observable histological difference between the acupuncture point cells and the cells of laterally adjacent tissue and (2) the observation that the acupuncture points may move about by a millimeter or so on a day-to-day basis.

Controlled Energy Fields

Our past has utilized chemical therapeutics but, from equation 5, we can see that controlled physical energy fields that lead to a control of μ_j lead to equally viable alternate paths for effective healing techniques. Thus, we can expect to see the development of techniques based upon electrostatic, magnetostatic, electromagnetic, sonic, static pressure and optical energies, etc. Of course, the techniques will need to function over a specific range of frequencies, deliver a specific energy intensity at a specific frequency and deliver it to the body antenna system in a specific pattern. These will be the first fields to be practically developed. Next, we can anticipate the development of deltron field techniques as a rapid follow-up of the discovery of acceptable proof of the deltron's existence. This will ultimately be followed by the discovery of negative space-time energies and their use therapeutically. Further on, we will deal with energies at the mind level and recognize that, no matter what type of device is created to administer healing energies to a patient, the patient can "screw up" the cure with inputs from his own mind energies. For the near-term future, this author is focusing his attention on the deltron detection problem.

Acknowledgement

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Figure Captions

1. (a) From top to bottom: plethysmogram, respiratory and galvanic skin resistance recordings in an ordinary person occupying a shielded room before the period of mental concentration by a psychic person occupying a separate shielded room.

(b) Recordings after the psychic person's period of mental concentration began.
2. Illustration of a composite healing power supply providing broad-band and high-intensity characteristics.
3. Some meridian circuitry and some acupuncture points in the body.
4. The antenna as a region of transition between a guided wave and a free-space wave.
5. (a) Antenna power pattern in polar coordinate and linear scale.

(b) Antenna pattern in rectangular coordinates and decibel (logarithmic) scale.

Both patterns are the same.
6. Polar plots of the potential function for a linear array.
7. (a) Linear array geometry of antenna elements.

(b) Planar array geometry of antenna elements.
8. Polar plot of antenna pattern for a scanned linear array.
9. Dual-arm planar spirals: (a) square Archimedean spiral; (b) logarithmic spiral; (c) Archimedean spiral.
10. Schematic illustration of relative positions for the entity, E, the vivaxis generator, V, and the spiral character of the wave field:

(a) elevation section of the earth (II) and (b) plane section of the earth from above (I).
11. The special acupuncture points at the ends of the fingers and toes (Seiketsu points).
12. Plot of the current wave from an initial current, i_0 , to a final current, i_∞ , after the application of a small D.C. voltage to the skin.
13. An equivalent electrical circuit for skin.