

Chapter 1 - The Body Antenna

Excerpt 2 from [The Sage Age – Blending Science with Intuitive Wisdom](#)

How Light Radiates

To explore how ritual body postures work, we will first have a brief overview of the analogy we are using for comparison, which is how an antenna works. This overview will include what we think electromagnetic energy is, how it radiates and how antennas make use of this energy. This next section is necessarily a bit technical but stick with it, as it will familiarize you with the terminology used later in the chapter and help you understand how even the cells of your body act as an antenna.

Electromagnetic energy is made up of two components, an electric field and a magnetic field. Electrical fields are mathematical descriptions of the forces between charges. (Fields and forces are discussed in more detail in Chapter 8.) By nature, charges seek equilibrium or balance. If, for some reason, there is a buildup of charges in one area, nature will seek to redistribute those charges evenly. The process of this equilibrium balancing is detected as a force because something is moving and we can feel and/or measure that motion.

A buildup of charges is created when there is a difference in voltage between two points. This is known as an electric field and applies whether the charges are moving or stagnate. If you have an AC electrical device plugged into an outlet, there is still an electric field around the cord and the appliance even if the device is turned off.

Another example of an electric field can be found inside a battery. The chemical composition of the battery causes an excess of charges to build up near the negative terminal, also called the cathode. Because of this build up, the positive terminal, called the anode has a lack of charge. This causes a difference of voltage at each end of the battery. When a conductor, such as a wire, comes into contact with both ends of the battery, the charges seek equilibrium through the wire. The buildup of electrons at the negative terminal *push* on each other in an attempt to get to the positive side of the battery, which has a lack of charge. This pushing process causes friction and results as heat in the wire. Even though the electrical charges are leaving one end of the battery and returning to the other end, some of the power is lost through heat in the wire and the battery is eventually depleted. If you let a battery sit unused for a long period of time, you'll notice that the corrosion begins to occur at the negative end of the battery first. This is due to the excess buildup of charges on that end; and, because the battery is not being used, the charges have no way to escape.

It's interesting to note that there must be an unequal difference, an unbalanced dualistic system, for there to be a reason for movement or change. This idea, that a less than equilibrium or chaotic system is necessary for motion and change in the universe, is discussed further in Chapter 9.

When there is a buildup of charge, an electric field is generated. When those charges move in an effort to seek equilibrium, a magnetic field is generated. Moving charges are collectively known as current flow. The combined effect of moving charges creates an electromagnetic field that can be found near the area surrounding the conductor, such as a wire or an antenna. The strength of the magnetic field varies depending on power consumption. The electric field strength remains constant. Following the example above, if an AC appliance is plugged in, an electric field is generated whether or not the appliance is turned on. But, a magnetic field is only present when the appliance is turned on and there is current flow.

To summarize:

- When a conductor has two different voltages at each end, an electrical field builds up between them.
- When electric charges move in an attempt to balance the difference in voltages, current flow results.
- When current is flowing, a magnetic field arises around it.

One of the most interesting aspects of an electromagnetic field is that it is the combined effect of two forces (electric and magnetic) that unite into one force (electromagnetic) with its own unique characteristics. The electric field is a buildup of charges that, given the opportunity, will move to a state of equilibrium. The magnetic field is polarized, which gives the charges a point of attraction or repulsion. An example of how this combined force has been best exploited in modern times is the continental electric grid. Alternating current varies the voltage in a power line in both a positive and negative direction. This regular, periodic change in polarity creates an environment in which the charges move back and forth, being attracted and then repelled. This is how electricity is pushed and pulled down the power line.

The analogy most often used to exemplify the flow of electricity along a wire is that of water flowing through a hose. But it is important to understand that electrical current in a wire is a special case of the overall propagation characteristics of how electromagnetic (EM) energy radiates. In free space, EM energy radiates as a wave. In the special case of electrical energy flowing through a wire, the EM energy field surrounds the activity of the electrical charges moving in the wire. The real *power* is in the field and not in the particles, like the electrons of the wire. At times, this concept is difficult for even the most seasoned of engineers to fully understand. We can feel or measure the force of change and motion, but it is the invisible field which causes the change.

As evidenced by radio and television broadcasts as well as visible light, EM energy can radiate in a wave motion without being guided by a physical element, such as a wire. Elements which transmit and receive this unbounded radiation are called antennas. EM radiation bombards everything in the universe, and most everything can be considered a receiving antenna of some type. To be considered a transmitting antenna, a power source is required. All living things inherently have this internal power source available.

The wave motion of electromagnetic energy is also a description that many intuitives use in an effort to explain non-local transmission of energy from extra-terrestrial sources. (If this sounds a little strange to you, consider that a star is an extra-terrestrial source of EM, or light, energy as well.) To exemplify, following is a formal description of the radiation of EM energy:

Wave motion can be thought of as the transport of energy and momentum from one point in space to another without the transport of matter.¹

Radio and television stations piggyback a signal containing information onto a carrier wave, which is composed of EM energy. In effect, they are using light to deliver information. Many intuitives, including mystics and shamans claim that the information they receive is transported by light frequencies which cannot currently be measured by physical instruments. (Prior to 1895, something as common as X-rays could not be measured with physical instruments either.) While science is trying to come to grips with an appropriate definition of “mind,” intuitives claim that “Mind” is omnipresent and everywhere. It is also the only appropriate receiver for the signals delivered on the higher, as yet un-measurable frequency radiations of EM, or light energy. Note that in intuitive terminology, “Mind” does not equate to “brain” or to any one thing in the physical human body. (More on this topic will be covered in the next chapter.)

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