



Figure 2.1: The horizontal polarization. The magnetic field is always perpendicular to the electric field. The electric field is the component that is parallel to the direction of propagation.

absorption is a direct consequence of electromagnetic energy to heat. The heat may be transferred again as electromagnetic energy, but this tends to be confined as infrared wavelengths, not as microwave energy.

It is a rule, although by no means an absolute one, that the longer the wavelength, the more readily it penetrates the rain and other particles, including water vapor, and the less readily it is scattered by them. Long wavelength radio waves, such as the 3-band systems, are less prone to this effect.

2.2.2. Scattering: The same process that causes electromagnetic energy to be absorbed and produce heat also causes the molecules in volume to oscillate in phase. They will scatter or "reflect" the electromagnetic energy at the same wavelength as it is received. This part of the scattered energy that energy that is scattered in all directions and provides our radar with its target information.

There are different types of scattering processes that reflect electromagnetic energy in different ways, governed largely by the size of the scatterer and the wavelength of the electromagnetic energy. For example, if a particle has a diameter of approximately 1/10th of the radar wavelength or less, the particle is considered to be a Rayleigh scatterer and the scattering is called Rayleigh scattering. If the particle size is greater, the scattering is called Mie scattering. If the particle size is greater than the wavelength, the scattering is called geometric scattering, which is the type of scattering that occurs in the rain.

Figure 2.2: The vertical polarization. The magnetic field is always perpendicular to the electric field. The electric field is the component that is parallel to the direction of propagation.

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