

Download Engineering Electromagnetic Fields Waves

In physics, electromagnetic radiation (EM radiation or EMR) refers to the waves (or their quanta, photons) of the electromagnetic field, propagating (radiating) through space, carrying electromagnetic radiant energy. It includes radio waves, microwaves, infrared, (visible) light, ultraviolet, X-rays, and gamma rays. Structure. The electromagnetic field may be viewed in two distinct ways: a continuous structure or a discrete structure. Continuous structure. Classically, electric and magnetic fields are thought of as being produced by smooth motions of charged objects. Electromagnetic waves are formed when an electric field (shown in red arrows) couples with a magnetic field (shown in blue arrows). Magnetic and electric fields of an electromagnetic wave are ...Ripple Tank (2-D Waves) Applet Ripple tank simulation that demonstrates wave motion, interference, diffraction, refraction, Doppler effect, etc., Engineering Electromagnetic Fields Waves.

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