

"In an electromagnetic wave, electric and magnetic fields oscillate sinusoidally in space and time. The oscillating E and B are perpendicular to each other, and to the direction of propagation.

"The oscillations of E and B are in phase.

"An electromagnetic wave travel in vacuum with the same speed $c = \frac{1}{\sqrt{\mu_0 \epsilon_0}}$.

"They transport energy and momentum as they pass through space.

"When these waves enter the surface, a surface current is induced on the surface.

"They show the properties of reflection, refraction, interference, diffraction and polarization.

"Electric field is responsible for all the effects of EM waves.

"It shows the high parts of the electromagnetic spectrum going from wavelength range in frequency range.

Wave Type of	Wavelength range	frequency range
radio waves		
"long"	10^3 to 10^6 m	3×10^8 to 3×10^9 Hz
"short"	10^2 to 10^3 m	3×10^9 to 3×10^{10} Hz
microwaves	10^{-2} to 10^{-1} m	3×10^{10} to 3×10^{11} Hz
"radio waves"	10^{-1} to 10^2 m	3×10^{11} to 3×10^{12} Hz
"IR rays"	10^{-5} to 10^{-4} m	3×10^{12} to 3×10^{14} Hz
ultraviolet	10^{-8} to 10^{-7} m	3×10^{14} to 3×10^{16} Hz
gamma rays	10^{-14} to 10^{-15} m	3×10^{22} to 3×10^{24} Hz

"In a plane electromagnetic wave, the electric field oscillates sinusoidally at a frequency of 50 Hz and amplitude 48 V/m . Calculate the wave length of the wave. What is the amplitude of the oscillating magnetic field? Show that the average energy density of the electric field equals the average energy density of the magnetic field.

$$\frac{1}{2} \epsilon_0 E_0^2 = \frac{1}{2} \mu_0 B_0^2$$

Answers For Practice 14a Electromagnetic Waves

Physics

SA Dillow



Answers For Practice 14a Electromagnetic Waves Physics:

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