

"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 charge 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 or frequency range.

Wave Type or Spectrum	Wavelength range	Frequency range
Radio waves		
"Long	10^3 to 10^9 m	3×10^8 to 3×10^9 Hz
"Short	10^3 to 10^6 m	3×10^8 to 3×10^6 Hz
TV waves	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Radio waves	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Microwaves	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Infrared	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Visible light	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Ultraviolet	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"X-rays	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz
"Gamma rays	10^2 to 10^3 m	3×10^8 to 3×10^8 Hz

"In a plane electromagnetic wave, the electric field oscillates sinusoidally at a frequency of 10^8 Hz and amplitude 48 V/m. Calculate the wave length of the radiation. Is the amplitude of the oscillating magnetic field (i) less than the average energy density of the electric field (ii) equal to the average energy density of the magnetic field?

Answer: (i) 3×10^8 m (ii) 3×10^8 m

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Answers For Practice 14a Electromagnetic Waves Physics Book Review: Unveiling the Power of Words

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