

CHAPTER 24: ELECTROMAGNETIC WAVES

1. Verify that the correct value for the speed of light c is obtained when numerical values for the permeability and permittivity of free space (μ_0 and ϵ_0) are entered into the

$$\text{equation } c = \frac{1}{\sqrt{\mu_0 \epsilon_0}}.$$

Solution $c = \frac{1}{\sqrt{(4\pi \times 10^{-7} \text{ T} \cdot \text{m} / \text{A})(8.8542 \times 10^{-12} \text{ F/m})}} = 2.998 \times 10^8 \text{ m/s} = 3.00 \times 10^8 \text{ m/s}$

2. Show that, when SI units for μ_0 and ϵ_0 are entered, the units given by the right-hand side of the equation in the problem above are m/s.

Solution $[c] = \frac{1}{\sqrt{\text{T} \cdot \text{F}/\text{A}}} = \sqrt{\frac{\text{A}}{\text{T} \cdot \text{F}}} = \sqrt{\frac{\text{C/s}}{(\text{N} \cdot \text{s}/\text{C} \cdot \text{m}) \times (\text{C}^2/\text{J})}} = \sqrt{\frac{\text{J} \cdot \text{m}}{\text{N} \cdot \text{s}^2}} = \sqrt{\frac{(\text{N} \cdot \text{m})\text{m}}{\text{N} \cdot \text{s}^2}} = \sqrt{\frac{\text{m}^2}{\text{s}^2}} = \text{m/s}$

3. What is the maximum electric field strength in an electromagnetic wave that has a maximum magnetic field strength of $5.00 \times 10^{-4} \text{ T}$ (about 10 times the Earth's)?

Solution $E_0 = cB_0 = (3.00 \times 10^8 \text{ m/s})(5.00 \times 10^{-4} \text{ T}) = 150 \text{ kV/m}$

4. The maximum magnetic field strength of an electromagnetic field is $5 \times 10^{-6} \text{ T}$. Calculate the maximum electric field strength if the wave is traveling in a medium in which the speed of the wave is $0.75c$.

Solution $E = cB$, here $E = v \cdot B$. So,
 $E = (0.75c)(5 \times 10^{-6} \text{ T}) = (0.75)(3.0 \times 10^8 \text{ m/s})(5 \times 10^{-6} \text{ T})$
 $E = 1.13 \times 10^3 \text{ V/m} = 1 \text{ kV/m}$

5. Verify the units obtained for magnetic field strength B in [Example 24.1](#) (using the equation $B = \frac{E}{c}$) are in fact teslas (T).

Solution $[B] = \frac{[E]}{[c]} = \frac{\text{V/m}}{\text{m/s}} = \frac{\text{V/s}}{\text{m}^2}$. We can use $P = IV$ to get
 $\text{N} \cdot \text{m/s} = \text{A} \cdot \text{V} \Rightarrow \text{V} = \text{N} \cdot \text{m/s} \cdot \text{A} \Rightarrow [B] = \text{N} \cdot \text{m} \cdot \text{s/s} \cdot \text{A} \cdot \text{m}^2 = \text{N/A} \cdot \text{m} = \text{T}$

6. (a) Two microwave frequencies are authorized for use in microwave ovens: 900 and 2560 MHz. Calculate the wavelength of each. (b) Which frequency would produce smaller hot spots in foods due to interference effects?

Solution $c = f\lambda \Rightarrow \lambda = \frac{c}{f} = \frac{3.00 \times 10^8 \text{ m/s}}{9.00 \times 10^8 \text{ Hz}} = 33.3 \text{ cm}$ and $\lambda = \frac{3.00 \times 10^8 \text{ m/s}}{2.56 \times 10^9 \text{ Hz}} = 11.7 \text{ cm}$

- (a)
 (b) The microwave with the smaller wavelength would produce smaller hot spot in foods, so the 2560 MHz.

7. (a) Calculate the range of wavelengths for AM radio given its frequency range is 540 to

Physics Chapter 24 Answers

SJ Ball



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