

Solutions to Giancoli Recommended Problems - Chapter 22

Solutions to Problems

8. Use the relationship $d = vt$ to find the time.

$$d = vt \rightarrow t = \frac{d}{v} = \frac{(1.50 \times 10^{21} \text{ m})}{(3.00 \times 10^8 \text{ m/s})} = 5.00 \times 10^2 \text{ s} = \boxed{8.33 \text{ min}}$$

11. The wavelength of the wave is calculated from Eq. 22-4.

$$\lambda = \frac{c}{f} = \frac{(3.00 \times 10^8 \text{ m/s})}{(7.14 \times 10^{14} \text{ Hz})} = \boxed{4.20 \times 10^{-7} \text{ m}}$$

This wavelength is violet visible light.

14. (a) Use Eq. 22-4 to find the wavelength.

$$c = \lambda f \rightarrow \lambda = \frac{c}{f} = \frac{(3.00 \times 10^8 \text{ m/s})}{(1.00 \times 10^3 \text{ Hz})} = \boxed{3.00 \times 10^5 \text{ m}}$$

- (b) Again use Eq. 22-4, with the speed of sound in place of the speed of light.

$$v = \lambda f \rightarrow \lambda = \frac{v}{f} = \frac{(341 \text{ m/s})}{(1.00 \times 10^3 \text{ Hz})} = \boxed{0.341 \text{ m}}$$

- (c) Fig. you cannot hear a 1000-Hz EM wave. It takes a pressure wave to excite the auditory system. However, if you applied the 1000-Hz EM wave to a speaker, you could hear the 1000-Hz pressure wave produced by the speaker.

18. The distance is the rate (speed of light) times the time (1 year), with the appropriate units.

$$d = (3.00 \times 10^8 \text{ m/s})(3.156 \times 10^7 \text{ s/yr}) = \boxed{9.47 \times 10^{15} \text{ m}}$$

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Lingjun Ying



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