

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.

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

Giancoli Physics Solutions Chapter 22

Minjie Lin



Giancoli Physics Solutions Chapter 22:

Unveiling the Magic of Words: A Review of "**Giancoli Physics Solutions Chapter 22**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Giancoli Physics Solutions Chapter 22**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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