

6. A gamma ray is high-frequency light. Find the wavelength of a gamma ray with a frequency of  $10^{22}$  Hz.

$$c = \lambda f, \text{ so } \lambda = \frac{c}{f} = \frac{3.00 \times 10^8 \text{ m/s}}{1 \times 10^{22} \text{ Hz}} = 3 \times 10^{-14} \text{ m or } 30 \text{ femtometers}$$

7. If the speed of a longitudinal sound wave is 340 m/s, and the frequency is 1000 Hz, what is the wavelength of the wave?

$$v = \lambda f, \text{ so } \lambda = \frac{v}{f} = \frac{340 \text{ m/s}}{1000 \text{ Hz}} = 0.34 \text{ m}$$

8. The Sears Building in Chicago sways back and forth at a frequency of about 0.1 Hz. What is its period of vibration?

$$P = \frac{1}{f} = \frac{1}{0.1 \text{ Hz}} = 10 \text{ sec}$$

9. If a train of freight cars, each 10 m long, rolls by you at the rate of 2 cars each second, what is the speed of the train?

*Conceptually, 2 cars of 10 meters each pass by a given point in one second. Therefore, the speed must be  $2 \times 10 = 20$  meters per second.*

*Or, using a wave speed equation,  $v = \lambda f = (10 \text{ m})(2 \text{ Hz}) = 20 \text{ m/s}$*

10. If a wave with wavelength 10 m has a frequency of 2 Hz, what is the wave speed?

$$v = \lambda f = (10 \text{ m})(2 \text{ Hz}) = 20 \text{ m/s}$$

11. If a water wave vibrates up and down two times each second and the distance between wave crests is 1.5 meters, find each of the following:

a) the frequency of the wave

*Frequency is the number of vibrations or cycles per second. Since we are told that this wave vibrates up and down (one cycle) two times each second, the frequency is 2 Hz.*

b) the wavelength of the wave

*Wavelength is the distance between successive identical parts of a wave. Since we are told that the distance between successive crests is 1.5 meters, the wavelength is 1.5 meters.*

c) the speed of the wave

$$v = \lambda f = (1.5 \text{ m})(2 \text{ Hz}) = 3 \text{ m/s}$$

12. Is it possible for one wave to cancel another wave so that the combined amplitude is zero? Explain your answer.

*Yes, this phenomenon is called destructive interference. When the crest of one wave completely overlaps with the trough of another wave of identical amplitude, the crest of the first completely fills in the trough of the other, resulting in zero amplitude.*

13. Is the Doppler effect an apparent change in speed or frequency of a wave, due to the motion of the source relative to the receiver?

*The Doppler effect is an apparent change in frequency of a wave. While the wave source creates waves of a constant speed, the motion of either the source or the receiver causes a change in the frequency with which the waves reach the receiver.*

# Conceptual Physics Chapter 26 Answers

**Arturo Cuomo**



**Conceptual Physics Chapter 26 Answers:**

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### **Table of Contents Conceptual Physics Chapter 26 Answers**

1. Understanding the eBook Conceptual Physics Chapter 26 Answers
  - The Rise of Digital Reading Conceptual Physics Chapter 26 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Chapter 26 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Conceptual Physics Chapter 26 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Chapter 26 Answers
  - Personalized Recommendations
  - Conceptual Physics Chapter 26 Answers User Reviews and Ratings
  - Conceptual Physics Chapter 26 Answers and Bestseller Lists

5. Accessing Conceptual Physics Chapter 26 Answers Free and Paid eBooks
  - Conceptual Physics Chapter 26 Answers Public Domain eBooks
  - Conceptual Physics Chapter 26 Answers eBook Subscription Services
  - Conceptual Physics Chapter 26 Answers Budget-Friendly Options
6. Navigating Conceptual Physics Chapter 26 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Conceptual Physics Chapter 26 Answers Compatibility with Devices
  - Conceptual Physics Chapter 26 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Conceptual Physics Chapter 26 Answers
  - Highlighting and Note-Taking Conceptual Physics Chapter 26 Answers
  - Interactive Elements Conceptual Physics Chapter 26 Answers
8. Staying Engaged with Conceptual Physics Chapter 26 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Conceptual Physics Chapter 26 Answers
9. Balancing eBooks and Physical Books Conceptual Physics Chapter 26 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Conceptual Physics Chapter 26 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Conceptual Physics Chapter 26 Answers
  - Setting Reading Goals Conceptual Physics Chapter 26 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Conceptual Physics Chapter 26 Answers
  - Fact-Checking eBook Content of Conceptual Physics Chapter 26 Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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