

Holt Physics

Problem 14A**ELECTROMAGNETIC WAVES****PROBLEM**

The atoms in an HCl molecule vibrate (like two charged balls attached to the ends of a spring). If the wavelength of the emitted electromagnetic wave is $3.75 \mu\text{m}$, what is the frequency of the vibration?

SOLUTION

Given $\lambda = 3.75 \times 10^{-6} \text{ m}$
 $v = 3.00 \times 10^8 \text{ m/s}$

Unknown $f = ?$

Use the wave-speed equation, and solve for λ .

$$c = f\lambda$$

$$f = \frac{c}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{3.75 \times 10^{-6} \text{ m}} = \boxed{8.00 \times 10^{13} \text{ Hz}}$$

ADDITIONAL PRACTICE

1. New-generation cordless phones use a $9.00 \times 10^2 \text{ MHz}$ frequency and can be operated up to 60.0 m from their base. How many wavelengths of the electromagnetic waves can fit between your car and a base 60.0 m away?
2. The highest directly measured frequency is $3.28 \times 10^{14} \text{ Hz}$, corresponding to one of the transitions in cadmium-112. How many wavelengths of electromagnetic waves with this frequency could fit across a dot on a book page? Assume the dot is $2.80 \times 10^{-3} \text{ m}$ in diameter.
3. Commercial trucks cause about 18 000 lane-change and merging accidents per year in the United States. To prevent many of them, a warning system covering blind spots is being developed. The system uses electromagnetic waves of frequency $2.40 \times 10^{10} \text{ Hz}$. What is the wavelength of these waves?
4. A typical compact disc stores information in tiny pits on the disc's surface. A typical pit size is 1.2 μm . What is the frequency of electromagnetic waves that have a wavelength equal to the typical CD pit size?
5. A new architectural technique detects the differences in electromagnetic waves emitted by humans and by weapons made of metal, plastic, or ceramic. One possible range of wavelengths used with this technique is from 2.0 mm to 3.0 mm. Calculate the associated range of frequencies.
6. The U.S. Army's heaviest landspike is almost 17 m across and is transported on a special trailer. The sound is produced by an electromagnetic coil that can generate a minimum frequency of 30.8 Hz. What is the wavelength of these electromagnetic waves?

Answers Holt Physics Problem 6e

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Table of Contents Answers Holt Physics Problem 6e

1. Understanding the eBook Answers Holt Physics Problem 6e
 - The Rise of Digital Reading Answers Holt Physics Problem 6e
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Holt Physics Problem 6e
 - 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 Answers Holt Physics Problem 6e
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Holt Physics Problem 6e
 - Personalized Recommendations
 - Answers Holt Physics Problem 6e User Reviews and Ratings
 - Answers Holt Physics Problem 6e and Bestseller Lists

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