

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

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 helicopter 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?

Holt California Physics Answers

RJ Alexander



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Table of Contents Holt California Physics Answers

1. Understanding the eBook Holt California Physics Answers
 - The Rise of Digital Reading Holt California Physics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt California Physics 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 Holt California Physics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt California Physics Answers
 - Personalized Recommendations
 - Holt California Physics Answers User Reviews and Ratings
 - Holt California Physics Answers and Bestseller Lists
5. Accessing Holt California Physics Answers Free and Paid eBooks
 - Holt California Physics Answers Public Domain eBooks
 - Holt California Physics Answers eBook Subscription Services
 - Holt California Physics Answers Budget-Friendly Options
6. Navigating Holt California Physics Answers eBook Formats

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