

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 $3.80 \times 10^{-3} \text{ m}$ 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?

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Table of Contents Holt Physics Problem 14a Answers

1. Understanding the eBook Holt Physics Problem 14a Answers
 - The Rise of Digital Reading Holt Physics Problem 14a Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Problem 14a 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 Physics Problem 14a Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Problem 14a Answers

- Personalized Recommendations
 - Holt Physics Problem 14a Answers User Reviews and Ratings
 - Holt Physics Problem 14a Answers and Bestseller Lists
5. Accessing Holt Physics Problem 14a Answers Free and Paid eBooks
 - Holt Physics Problem 14a Answers Public Domain eBooks
 - Holt Physics Problem 14a Answers eBook Subscription Services
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 6. Navigating Holt Physics Problem 14a Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Physics Problem 14a Answers Compatibility with Devices
 - Holt Physics Problem 14a Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Physics Problem 14a Answers
 - Highlighting and Note-Taking Holt Physics Problem 14a Answers
 - Interactive Elements Holt Physics Problem 14a Answers
 8. Staying Engaged with Holt Physics Problem 14a Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Physics Problem 14a Answers
 9. Balancing eBooks and Physical Books Holt Physics Problem 14a Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Physics Problem 14a Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Holt Physics Problem 14a Answers
 - Setting Reading Goals Holt Physics Problem 14a Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Holt Physics Problem 14a Answers

- Fact-Checking eBook Content of Holt Physics Problem 14a 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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