

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?

Holt Physics Problem 14a Answers

**Holt Rinehart & Winston, Holt,
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Problem Workbook Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-04 **The Wall Street Journal**, 1993 **Holt Physics Teaching Resources**, 2005 Books in Print, 1982 **Reteaching Worksheets with Answer Key** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1997-01-01 Holt Physics Raymond A. Serway, Jerry S. Faughn, 2009-01-01 **Physics, Grades 9-12 Visual Concepts** Holt Rinehart and Winston, Hrw, 2006-01-01 **Physics Grade 11 Laboratory Kit** Holt Rinehart & Winston, Hrw, 2006-01-01 **Physics, Grades 9-12 Interactive Tutor and User's Guide for Macintosh and Windows** Holt Rinehart and Winston, Hrw, 1998-04-01 *Physics, Grades 11 Premier Online Edition With Student Edition 6 Year Subscription* Serway, Faughn, 2006-01-01 **Holt Science and Technology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-04 **Se on CD-R (Set of 25) Holt Phys 2006** Serway, 2006-01-01 **Physics, Grades 9-12 Student One Stop** Faughn, Raymond A. Serway, 2009-01-01 **Holt Science and Technology** Holt, Rinehart and Winston Staff, 2001 **Holt Physics** Raymond A. Serway, Jerry S. Faughn, 2005-01-31 *Physics, Grades 9-12 Interactive Online Edition With Student One Stop 6 Year Subscription* Serway, Faughn, 2009-01-01 *Holt Physics* Serway, 2003-09-01 *Holt Science and Technology* Holt, Rinehart and Winston Staff, 2000-04 *Holt Science and Technology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-06-01 **Holt Science and Technology 2001** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-04-01

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