

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.

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

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.

Answers For Conceptual Physics Assessment 27 Light

J Ma



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Jerry Wellington,2007-01-24 A comprehensive critical survey of the controversies theories and practices central to secondary education today this book provides teachers researchers parents and policy makers with a vital new reference resource It covers important topics including assessment citizenship curriculum e learning exclusion theories of learning work experience Fully cross referenced with extensive suggestions for further reading and on line resources this is an essential guide to theory and practice in the twenty first century classroom **RealTime Physics Active Learning Laboratories, Module 4** David R. Sokoloff,2012-01-03 RealTime Physics is a series of introductory laboratory modules that use computer data acquisition tools microcomputer based lab or MBL tools to help students develop important physics concepts while acquiring vital laboratory skills Besides data acquisition computers are used for basic mathematical modeling data analysis and simulations There are 4 RealTime Physics modules Module 1 Mechanics Module 2 Heat and Thermodynamics Module 3 Electricity and Magnetism and Module 4 Light and Optics *The School Science Review* ,2000 **Advanced Microscopy** Takayoshi Kobayashi,2024-10-15 This book covers the principle structure enhancement of sensitivity and resolution power of photothermal and Raman microscopies It includes real world applications to biological and medical targets Advanced Microscopy Photo Thermal and Induced Raman Microscopy introduces clear descriptions of various Raman processes such as spontaneous stimulates coherent anti Stokes Raman CARS Raman loss and Stokes Raman gain It covers pump probe microscopies using actinic pump laser and sensing probe laser resulting in improvement due to intrinsic nonlinearity which provides an advantage in the imaging of nonfluorescent targets The author also provides solutions to noise and sensitivity problems which are two of the most important concerns in the microscopy applications Finally the book also draws direct comparisons of the advantages and drawbacks of a Raman microscopes in comparison with photothermal microscopes The book will be useful to researchers and non specialists in biomedical fields using optics and electronics relevant to optical microscopes It will also be a helpful resource to graduate students in the fields of biology and medical research who are using photothermal microscopes in their research **Scientific and Technical Aerospace Reports** ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Technical Abstract Bulletin ,1982 **Energy Research Abstracts** ,1993 **Bulletin of the Atomic Scientists** ,1978-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Energy** ,1983
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