Chapter 33 Interference and Diffraction

Conceptual Problems

A phase difference due to path-length difference is observed for monochromatic visible light. Which phase difference requires the least (minimum) path length difference? (a) 90° (b) 180° (c) 270° (d) the answer depends on the wavelength of the light.

Determine the Concept The phase difference δ due to a path difference Δr are related according to $\delta/2\pi = \Delta r/\lambda$. Therefore, the least path length difference corresponds to the smallest phase difference. (a) is correct.

Which of the following pairs of light sources are coherent: (a) two candles, (b) one point source and its image in a plane mirror, (c) two pinholes uniformly illuminated by the same point source, (d) two headlights of a car, (e) two images of a point source due to reflection from the front and back surfaces of a soap film.

Determine the Concept Coherent sources have a constant phase difference. The pairs of light sources that satisfy this criterion are (b), (c), and (e).

 [SSM] The spacing between Newton's rings decreases rapidly as the diameter of the rings increases. Explain qualitatively why this occurs.

Determine the Concept The thickness of the air space between the flat glass and the lens is approximately proportional to the square of d, the diameter of the ring. Consequently, the separation between adjacent rings is proportional to 1/d.

 If the angle of a wedge-shaped air film, such as that in Example 32-2 is too large, fringes are not observed. Why?

Determine the Concept There are two possible reasons that fringes might not be observed. (1) The distance between adjacent fringes is so small that the fringes are not resolved by the eye. (2) Twice the thickness of the air space is greater than the coherence length of the light. If this is the case, fringes would be observed in the region close to the point where the thickness of the air space approaches zero.

Why must a film that is used to observe interference colors be thin?

Determine the Concept Colors are observed when the light reflected off the front and back surfaces of the film interfere destructively for some wavelengths and

Conceptual Physics 31 Diffraction And Interference Answers

M Walker

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College, 1975

Physics John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical Nuclear Science Abstracts .1975-06 professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution Evaluation Package for Cutnell and Johnson Physics 8E Cutnell, 2008-10-28 Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson, 1982 Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics Elements of Physical Chemistry Peter William Atkins, Julio De Paula, 2017 This revision of the introductory textbook of physical chemistry has been designed to broaden its appeal particularly to students with an interest in biological applications **Essentials of Physics** John D. Cutnell, Kenneth W. Johnson, 2006 No further information has been provided for this title Soviet Instructors Manual to Accompany Conceptual Physics, Matter in Motion Jae R. Ballif, 1969 Physics, Doklady ,1987 Physics Briefs ,1993 Scientific and Technical Aerospace Reports ,1971 **General Catalog** Brandeis University, 1952 Six Ideas That Shaped Physics: Unit Q - Particles Behaves Like Waves Thomas A Moore, 2003-01-09 SIX IDEAS THAT SHAPED PHYSICS is the 21st century s alternative to traditional encyclopedic textbooks Thomas Moore designed SIX IDEAS to teach students to apply basic physical principles to realistic situations to solve realistic problems to resolve contradictions between their preconceptions and the laws of physics to organize the ideas of physics into an integrated hierarchy Current Index to Journals in Education ,2000-10 Catalog Oregon State Agricultural

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