

31 DIFFRACTION AND INTERFERENCE

Objectives

- Describe what Huygens stated about light waves. (31.1)
- Describe what affects the extent of diffraction. (31.2)
- Explain how interference affects wave amplitudes. (31.3)
- Describe what Young's interference experiment demonstrated. (31.4)
- Explain how the colors seen in thin films are produced. (31.5)
- Describe how laser light is emitted. (31.6)
- Explain how a hologram is produced. (31.7)

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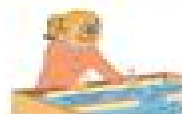
MATERIALS construction paper, container of water, clear nail polish

EXPECTED OUTCOME Students will see a pattern of iridescent colors on the nail polish film.

ANALYZE AND CONCLUDE

1. A pattern of iridescent colors
2. Different colors will be observed at different viewing angles.
3. Light incident on thin films is reflected from the top and bottom surfaces of the film. The interference of the reflected light as it exits the film gives rise to the iridescent colors.

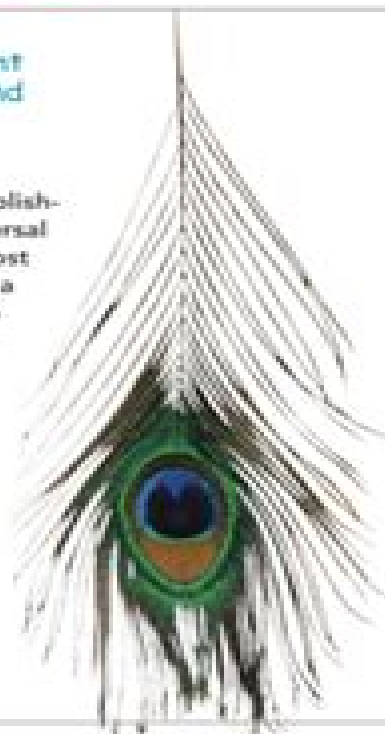
31 DIFFRACTION AND INTERFERENCE



THE BIG IDEA

The wave model of light explains diffraction and interference.

Today Isaac Newton is most famous for his accomplishments in mechanics—his laws of motion and universal gravitation. Early in his career, however, he was most famous for his work on light. Newton pictured light as a beam of ultra-tiny material particles. With this model he could explain reflection as a bouncing of the particles from a surface, and he could explain refraction as the result of deflecting forces from the surface acting on the light particles. In the eighteenth and nineteenth centuries, this particle model gave way to a wave model of light because waves could explain reflection, refraction, and everything else that was known about light at that time. In this chapter we will investigate the wave aspects of light to explain two important phenomena—diffraction and interference.



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What Produces Iridescent Colors in Thin Films?

1. Submerge a piece of construction paper in a container of water.
2. Apply one drop of clear nail polish to the surface of the water and watch it spread out over the surface of the water.
3. After the nail polish has stopped spreading, slowly lift the construction paper out of the water. The nail polish should adhere to the surface of the paper.
4. Allow the paper to dry.

Analyze and Conclude

1. **Observing** What do you observe as you view the dried film on the surface of the paper?
2. **Predicting** What do you think you will see if you view the film from various angles?
3. **Making Generalizations** How would you explain the colors produced by thin films?

Chapter 31 Diffraction And Interference Exercises Answers

Arthur Beiser



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apply conceptual understanding to quantitative problem solving with chapter puzzlers checkpoints and reviews and summaries **Fundamentals of Physics, , Chapters 23 to 49** David Halliday,Robert Resnick,Jearl Walker,1993-09-13 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1888 edition Excerpt apparel and sought and obtained employment as a teamster in the quartermasters department Her features were very large and so coarse and masculine was her general appearance that she would readily have passed as a man and in her case the deception was no doubt easily practiced Next day the she dragoon was caught and proved to be a rather prepossessing young woman and though necessarily bronzed and hardened by exposure I doubt if even with these marks of campaigning she could have deceived as readily as did her companion How the two got acquainted I never learned and though they had joined the army independently of each other yet an intimacy had sprung up between them long before the mishaps of the foraging expedition They both were forwarded to army headquarters and when provided with clothing suited to their sex sent back to Nashville and thence beyond our lines to Louisville On January 9 by an order from the War Department the Army of the Cumberland had been divided into three corps designated the Fourteenth Twentieth and Twenty first This order did not alter the composition of the former grand divisions nor change the commanders but the new nomenclature was a decided improvement over the clumsy designations Right Wing Centre and Left Wing which were well calculated to lead to confusion sometimes McCooks wing became the Twentieth Corps and my division continued of the same organization and held the same number as formerly the Third Division Twentieth Corps My first brigade was now commanded by Brigadier General William H Lytle the second by Colonel Bernard Laiboldt and the third by Colonel Luther P Bradley On the 4th of March I was directed to move in light marching order toward Franklin and *Fundamentals of Physics, Chapters 22 - 45* David Halliday,Robert Resnick,Jearl Walker,2001 The latest edition of Fundamentals of Physics has undergone a major redesign based on comments and suggestions from students and lecturers to make it more accessible to students and to provide them with an understanding of basic physics concepts **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 Microscopy and Analysis ,1997 **Fundamentals of Physical Science** Konrad Bates Krauskopf,Arthur Beiser,1971 Matter in motion Electricity and magnetism The atom Atoms in combination Basic chemistry Basic geology Mathematics refresher Microphysics Donald Earl DeGraaf,1978

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