

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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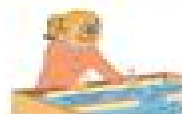
MATERIALS construction paper, container of water, clear nail polish

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.

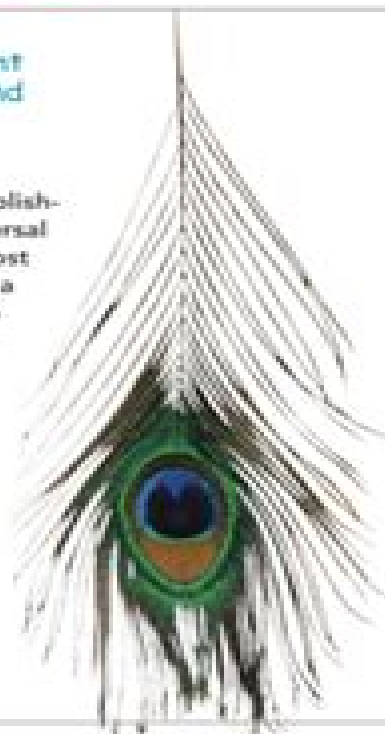
31 DIFFRACTION AND INTERFERENCE



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 Summary

James S. Walker



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Introduction to Biological Physics for the Health and Life Sciences Kirsten Franklin, Paul Muir, Terry Scott, Paul Yates, 2019-04-15 A thoroughly updated and extended new edition of this well regarded introduction to the basic concepts of biological physics for students in the health and life sciences Designed to provide a solid foundation in physics for students following health science courses the text is divided into six sections Mechanics Solids and Fluids Thermodynamics Electricity and DC Circuits Optics and Radiation and Health Filled with illustrative examples Introduction to Biological Physics for the Health and Life Sciences Second Edition features a wealth of concepts diagrams ideas and challenges carefully selected to reference the biomedical sciences Resources within the text include interspersed problems objectives to guide learning and descriptions of key concepts and equations as well as further practice problems NEW CHAPTERS INCLUDE Optical Instruments Advanced Geometric Optics Thermodynamic Processes Heat Engines and Entropy Thermodynamic Potentials This comprehensive text offers an important resource for health and life science majors with little background in mathematics or physics It is also an excellent reference for anyone wishing to gain a broad background in the subject Topics covered include Kinematics Force and Newton s Laws of Motion Energy Waves Sound and Hearing Elasticity Fluid Dynamics Temperature and the Zeroth Law Ideal Gases Phase and Temperature Change Water Vapour Thermodynamics and the Body Static Electricity Electric Force and Field Capacitance Direct Currents and DC Circuits The Eye and Vision Optical Instruments Atoms and Atomic Physics The Nucleus and Nuclear Physics Ionising Radiation Medical imaging Magnetism and MRI Instructor s support material available through companion website www.wiley.com/go/biological_physics **Schaums Outline of Physics for Engineering and Science 3/E (EBOOK)** Michael E. Browne, 2013-05-31 Tough Test Questions Missed Lectures Not Enough Time Fortunately there s Schaum s This all in one package includes more than 750 fully solved problems examples and practice exercises to sharpen your problem solving skills Plus you will have access to 25 detailed videos featuring instructors who explain the most commonly tested concepts it s just like having your own virtual tutor You ll find everything you need to build confidence skills and knowledge for the highest score possible More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you 788 fully solved problems Succinct review of physics topics such as motion energy fluids waves heat and magnetic fields Support for all the major textbooks for physics for engineering and science courses Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum's Outline of Physics for Engineering and Science, Second Edition Michael Browne, 2009-08-31 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines

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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

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