

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)

discover!

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

- A pattern of iridescent colors.
- Different colors will be observed at different viewing angles.
- 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.

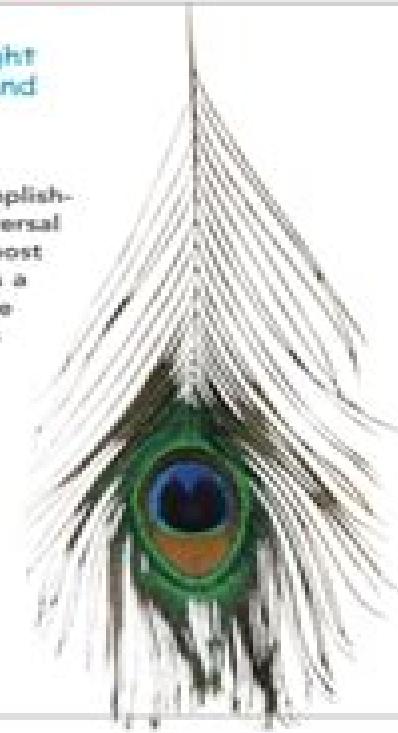
31 DIFFRACTION AND INTERFERENCE



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?

- Submerge a piece of construction paper in a container of water.
- Apply one drop of clear nail polish to the surface of the water and watch it spread out over the surface of the water.
- 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.
- Allow the paper to dry.

Analyze and Conclude

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

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Table of Contents Chapter 31 Diffraction And Interference Exercises Answers

1. Understanding the eBook Chapter 31 Diffraction And Interference Exercises Answers
 - The Rise of Digital Reading Chapter 31 Diffraction And Interference Exercises Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 31 Diffraction And Interference Exercises Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 31 Diffraction And Interference Exercises Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 31 Diffraction And Interference Exercises Answers
 - Personalized Recommendations
 - Chapter 31 Diffraction And Interference Exercises Answers User Reviews and Ratings
 - Chapter 31 Diffraction And Interference Exercises Answers and Bestseller Lists
5. Accessing Chapter 31 Diffraction And Interference Exercises Answers Free and Paid eBooks
 - Chapter 31 Diffraction And Interference Exercises Answers Public Domain eBooks
 - Chapter 31 Diffraction And Interference Exercises Answers eBook Subscription Services
 - Chapter 31 Diffraction And Interference Exercises Answers Budget-Friendly Options
6. Navigating Chapter 31 Diffraction And Interference Exercises Answers eBook Formats

- ePub, PDF, MOBI, and More
- Chapter 31 Diffraction And Interference Exercises Answers Compatibility with Devices
- Chapter 31 Diffraction And Interference Exercises Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Chapter 31 Diffraction And Interference Exercises Answers
- Highlighting and Note-Taking Chapter 31 Diffraction And Interference Exercises Answers
- Interactive Elements Chapter 31 Diffraction And Interference Exercises Answers

8. Staying Engaged with Chapter 31 Diffraction And Interference Exercises Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Chapter 31 Diffraction And Interference Exercises Answers

9. Balancing eBooks and Physical Books Chapter 31 Diffraction And Interference Exercises Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Chapter 31 Diffraction And Interference Exercises Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Chapter 31 Diffraction And Interference Exercises Answers

- Setting Reading Goals Chapter 31 Diffraction And Interference Exercises Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Chapter 31 Diffraction And Interference Exercises Answers

- Fact-Checking eBook Content of Chapter 31 Diffraction And Interference Exercises Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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