

# Chapter 9

## PHYSICAL OPTICS

### Learning Objectives

At the end of this chapter the students will be able to:

1. Understand the concept of wavefront.
2. State Huygen's principle.
3. Use Huygen's principle to explain linear superposition of light.
4. Understand interference of light.
5. Describe Young's double slit experiment and the evidence it provided to support the wave theory of light.
6. Recognize and express colour patterns in thin films.
7. Describe the formation of Newton's rings.
8. Understand the working of Michelson's interferometer and its uses.
9. Explain the meaning of the term diffraction.
10. Describe diffraction at a single slit.
11. Derive the equation for angular position of first minimum.
12. Derive the equation  $d \sin\theta = m\lambda$ .
13. Carry out calculations using the diffraction grating formula.
14. Describe the phenomenon of diffraction of X-rays by crystals.
15. Appreciate the use of diffraction of X-rays by crystals.
16. Understand polarization as a phenomenon associated with transverse waves.
17. Recognize and express that polarization is produced by a Polaroid.
18. Understand the effect of rotation of Polaroid on polarization.
19. Understand how plane polarized light is produced and detected.

**L**ight is a type of energy which produces sensation of vision. But how does this energy propagate? In 1678, Huygen's, an eminent Dutch scientist, proposed that

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**D Siedentop**



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**Holt Physics** ,2000-12    **Physics** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006    **Tstgen** Holt Rinehart & Winston,1998-04    **El-Hi Textbooks and Serials in Print** ,2003    **The Latest and Best of TESS** ,1991  
Children's Books in Print ,2007 ,2006    *Children's Books in Print* R R Bowker Publishing,Bowker,1999-12    *Books in Print Supplement* ,2002    Miscellaneous Publication - National Bureau of Standards United States. National Bureau of Standards,1934    *NBS Special Publication* ,1947    *The Engineer* ,1909-07    **National Bureau of Standards Miscellaneous Publication** ,1945    **Rubber Research and Technology at the National Bureau of Standards** Lawrence Arnell Wood,1947    *Forthcoming Books* Rose Arny,2003    *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1968    **Florida Schools** ,1964    **The Bookseller and the Stationery Trades' Journal** ,1927    Book Review Digest ,1910    *Florida School Bulletin* ,1963    **Environmental Physics** Egbert Boeker,Rienk van Grondelle,1995-02-28 This textbook demonstrates the ability of physics to understand processes in the environment Combining basic principles with their application to important questions of environmental science it allows students to move from basic physics to practical environmental scientific techniques

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