

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.

Light 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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