

# Light : Reflection and Refraction

## REFLECTION AT PLANE SURFACE

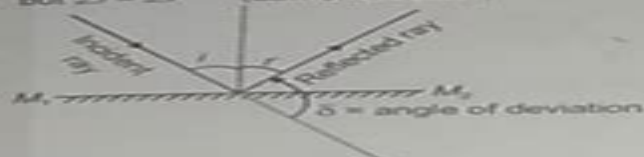
In case of reflection at plane surface such as plane mirror

1. Reflected ray suffers deviation of  $\delta = (180^\circ - 2i)$  with respect to the incident ray

Consider the figure shown. Here,

$$\delta = 180^\circ - (i + r)$$

but  $\angle i = \angle r$  (Law of reflection)



$$\text{so } \delta = 180^\circ - 2i$$

if  $\angle i = 0$  (that is, in case of normal incidence)

then  $\delta = \text{maximum} = 180^\circ$

2. If keeping incident ray fixed, mirror is rotated by an angle  $\theta$ , then reflected ray is rotated through an angle  $2\theta$ . The figures here demonstrate this. It is valid for all angles of incidence.



(Before rotating)

Incident ray coincides with the normal

When the mirror is rotated through an angle  $\theta$ , normal to the mirror rotates through an angle  $\theta$  from the initial so angle of incidence becomes  $\theta$  and reflected ray makes an angle  $2\theta$  with the original reflected ray.

## CHAPTER 1

### THIS CHAPTER INCLUDES

- Reflection at Plane Surface
- Velocity of Image in a Plane Mirror
- Minimum Length of plane Mirror
- Images Formed in a Pair of Mirrors
- Relation between  $F$  and  $R$  of a Spherical Mirror
- Mirror formula and Magnification
- Nature and Position of Images for a Spherical Mirror
- Lateral Displacement ( $d$ )
- Apparent Depth of a Tank
- Lens Formula
- Magnification Produced by a Lens
- Application in Daily Life
- Assignment

# Chapter 1 reflection And Refraction

**Victor M. Corman**



## Chapter 1 reflection And Refraction:

Theory of the Universe M P Sweet, 1908      **Illumination Engineering** R. John Koschel, 2013-02-06 This book brings together experts in the field who present material on a number of important and growing topics including lighting displays solar concentrators The first chapter provides an overview of the field of nonimaging and illumination optics Included in this chapter are terminology units definitions and descriptions of the optical components used in illumination systems The next two chapters provide material within the theoretical domain including étendue squeezing and the skew invariant The remaining chapters focus on growing applications This entire field of nonimaging optics is an evolving field and the editor plans to update the technological progress every two to three years The editor John Koschel is one of the most prominent leading experts in this field and he is the right expert to perform the task      **Selected Problems in Physics** ,      **"Code of Massachusetts regulations, 1988"** , 1988 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **A High School Course in Physics** Frederick Russell Gorton, 1910      *College Physics* Physical Science Study Committee, 1968      **Electromagnetic Theory of Light** Charles Emerson Curry, 1905      "Code of Massachusetts regulations, 1995" , 1995 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020      **Light and sound** Edward Leamington Nichols, 1909      *Introduction to Holography* Vincent Toal, 2011-09-28 Over the course of its 60 year history holography has enabled new insights into the nature of light and has contributed to innovative applications including many unrelated to optics Introduction to Holography explains how to use holographic techniques to solve specific problems in a variety of fields The text focuses on the state of development of existing and emerging holographic applications Numerical problems are provided at the end of each chapter After a review of essential optics the book presents basic holographic principles It introduces the theory of thick holograms along with a less demanding and more insightful path to important results based on the work of Jacques Ludman Examining the use of holography in practice the author then describes the conditions for successful holography in the laboratory including various lasers commonly used for holography He also discusses recording materials and their key holographic characteristics The final portion of the book deals with applications of holography including imaging holographic interferometry holographic optical elements and data storage The text also explores digital and computer generated holography light in flight and first arriving light techniques and their applications polarization holography and holography for sensing applications Since its invention in 1948 holography has evolved into a mature technology with a wide range of applications This practical guide to the field offers a comprehensive survey of contemporary holographic techniques and applications      **Experimental science. Physiography, section 1, by R.A. Gregory and A.T. Simmons** sir Richard Arman Gregory (bart.), 1899      *Krishina's Engineering Physics; Volume III; Optics; 2001* ,      "Code of Massachusetts regulations, 1987" , 1987 Archival snapshot of entire looseleaf Code of

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