

Light : Reflection and Refraction

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

REFLECTION AT PLANE SURFACE

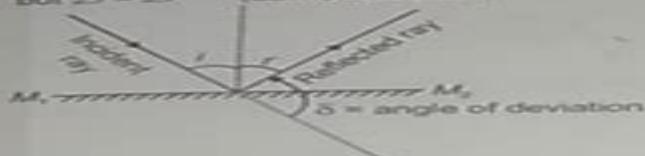
In case of reflection at plane surface such as plane mirror

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)



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

Chapter 1 reflection And Refraction

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Chapter 1 reflection And Refraction:

A High School Course in Physics Frederick Russell Gorton,1910 Selected Problems in Physics , Illumination Engineering R. John Koshel,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 etendue etendue 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 Koshel is one of the most prominent leading experts in this field and he is the right expert to perform the task **Light and sound** Edward Leamington Nichols,1909 Physical optics Robert Williams Wood,1911 The Elements of Physics Edward Leamington Nichols,1903 **Electromagnetic Theory of Light** Charles Emerson Curry,1905 Light and Sound for Engineers Reginald Cyril Stanley,1968 **"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 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 Krishina's Engineering Physics; Volume III; Optics; 2001 , **College Physics** Physical Science Study Committee,1968 **"Code of Massachusetts regulations, 1989"** ,1989 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 DWDM Network Designs and Engineering Solutions Ashwin Gumaste,Tony Antony,2003 A

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Table of Contents Chapter 1reflection And Refraction

1. Understanding the eBook Chapter 1reflection And Refraction
 - The Rise of Digital Reading Chapter 1reflection And Refraction
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1reflection And Refraction
 - 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 1reflection And Refraction
 - User-Friendly Interface

4. Exploring eBook Recommendations from Chapter 1reflection And Refraction
 - Personalized Recommendations
 - Chapter 1reflection And Refraction User Reviews and Ratings
 - Chapter 1reflection And Refraction and Bestseller Lists
5. Accessing Chapter 1reflection And Refraction Free and Paid eBooks
 - Chapter 1reflection And Refraction Public Domain eBooks
 - Chapter 1reflection And Refraction eBook Subscription Services
 - Chapter 1reflection And Refraction Budget-Friendly Options
6. Navigating Chapter 1reflection And Refraction eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 1reflection And Refraction Compatibility with Devices
 - Chapter 1reflection And Refraction Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 1reflection And Refraction
 - Highlighting and Note-Taking Chapter 1reflection And Refraction
 - Interactive Elements Chapter 1reflection And Refraction
8. Staying Engaged with Chapter 1reflection And Refraction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 1reflection And Refraction
9. Balancing eBooks and Physical Books Chapter 1reflection And Refraction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 1reflection And Refraction
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 1reflection And Refraction
 - Setting Reading Goals Chapter 1reflection And Refraction
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Chapter 1reflection And Refraction
 - Fact-Checking eBook Content of Chapter 1reflection And Refraction
 - 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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