GEOMETRICAL OPTICS

INTRODUCTION :

Blue lakes, ochre deserts, green forest, and multicolored rainbows can be enjoyed by anyone who has eyes with which to see them. But by studying the branch of physics called **optics**, which deals with the behaviour of light and other electromagnetic waves, we can reach a deeper appreciation of the visible world. A knowledge of the properties of light allows us to understand the blue color of the sky and the design of optical devices such as telescopes, microscopes, cameras, eyeglasses, and the human eyes. The same basic principles of optics also lie at the heart of modern developments such as the laser, optical fibers, holograms, optical computers, and new techniques in medical imaging.

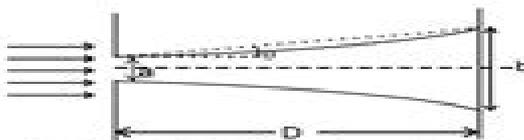## 1. CONDITION FOR RECTILINEAR PROPAGATION OF LIGHT
(Only for information not in IIT-JEE syllabus)

Some part of the optics can be understood if we assume that light travels in a straight line and it bends abruptly when it suffers reflection or refraction.
The assumption that the light travels in a straight line is correct if
(i) the medium is isotropic, i.e. its behaviour is same in all directions and (ii) the obstacle past which the light moves or the opening through which the light moves is not very small.
Consider a slit of width 'a' through which monochromatic light rays pass and strike a screen, placed at a distance D as shown.

It is found that the light strikes in a band of width 'b' more than 'a'. This bending is called **diffraction**.
Light bends by (b–a)/2 on each side of the central line .It can be shown by wave theory of light that

$\sin\theta = \dfrac{\lambda}{a}$ ....(A), where θ is shown in figure.

This formula indicates that the **bending is considerable only when a $\simeq$ λ** . Diffraction is more pronounced in sound because its wavelength is much more than that of light and it is of the order of the

size of obstacles or apertures. Formula (A) gives $\dfrac{b-a}{2D} \approx \dfrac{\lambda}{a}$.

It is clear that the bending is negligible if $\dfrac{D\lambda}{a} << a$ or $a >> \sqrt{D\lambda}$. If this condition is fulfilled, light is said

to move rectilinearly. In most of the situations including geometrical optics the conditions are such that we can safely assume that light moves in straight line and bends only when it gets reflected or refracted.
Thus geometrical optics is an approximate treatment in which the light waves can be represented by straight lines which are called rays. A **ray** of light is the straight line path of transfer of light energy. Arrow represents the direction of propagation of light.
Figure shows a ray which indicates light is moving from A to B.

$$A \xrightarrow{\quad\text{ray}\quad} B$$

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Fundamentals of Photonics Bahaa E. A. Saleh,Malvin Carl Teich,2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

Solutions of the Cambridge Senate-House Problems for Four Years Norman Macleod Ferrers,1851 Solutions of the Cambridge Senate-house Problems for Four Years 1848-51 Norman Macleod Ferrers,J. Stuart Jackson,1851 **LED Lighting** Malvin Carl Teich,2025-04-14 LED Lighting is a self contained and introductory level book featuring a blend of theory and applications that thoroughly covers this important interdisciplinary area Building on the underlying fields of optics photonics and vision science it comprises four parts PART I is devoted to fundamentals The behavior of light is described in terms of rays waves and photons Each of these approaches is best suited to a particular set of applications The properties of blackbody radiation thermal light and incandescent light are derived and explained The essentials of semiconductor physics are set forth including the operation of junctions and heterojunctions quantum wells and quantum dots and organic and perovskite semiconductors PART II deals with the generation of light in semiconductors and details the operation and properties of III V semiconductor devices MQWLEDs microLEDs quantum dot devices QLEDs WQLEDs organic semiconductor devices OLEDs SMOLEDs PLEDs WOLEDs and perovskite devices PeLEDs PPeLEDs QPeLEDs PeWLEDS PART Ill focuses on vision and the perception of color as well as on colorimetry It delineates radiometric and photometric quantities as well as various measures of luminous efficacy and efficiency It also elucidates the significance of commonly used LED lighting metrics such as the color rendering index CRI color temperature CT correlated color temperature CCT and chromaticity diagram PART IV is devoted to LED lighting focusing on its history and salutary features and on how this modern form of illumination is deployed It describes the principal components used in LED lighting including phosphor conversion LEDs PCLEDs for generating cool and warm white light chip on board COB devices color mixing LEDs LED filaments retrofit LED lamps hybrid devices LED luminaires and OLED light panels It concludes with a discussion of smart

and connected lighting that reviews plant centric lighting and highlights the roles of gamma and circadian brain rhythms in human centric lighting Finally the performance metrics for traditional and LED light sources are summarized Each chapter contains practical examples highlighted equations color coded figures and an extensive bibliography *The Method of the Generalised Eikonal* Michael V. Vesnik,2015-07-24 Diffraction theory describes scattering mechanisms for waves of various physical nature scattered by objects of different shapes and materials This book proposes new methods to account for the contour shape edge profile and boundary conditions of three dimensional scatterers in particularly flat polygons and polyhedrals A standard method to refine the physical optics approximation PO is the heuristic method of edge waves MEW In comparison with MEW the presented approaches simplify the solving and refining the PO approximation without solving a corresponding two dimensional problem Furthermore these methods allow to take into account the field perturbation in the vicinity of vertices While the analytical formulas obtained by using these new approaches are as simple as in the PO case the accuracy can be even higher than for MEW On the basis of the developed methods construction of solutions for wave propagation in urban area and elastic wave diffraction including seismic waves are proposed The book is useful for specialists who solve scientific and engineering problems in wave propagation and for students and postgraduate students *Ultrawideband Radar Measurements* Lev I︠U︡r'evich Astanin,A. A. Kostylev,1997 Fast response transistors for ultrawideband UWB radar systems and faster computers have prompted novel approaches to theoretical descriptions of such signal systems and solutions to conventional radar problems According to Astanin Baltic Technical U St Petersburg and Kostylev Mozhaisky Military Academy of Space Engineering UWB has entered a third wave of research interest this decade the first being tracking of a radar target and the next steady oscillation transmission After introducing definitional modeling and measurement issues they probe target scattering target responses UWB signal processing and design principles and mathematical modeling of UWB radar meters Annotation copyrighted by Book News Inc Portland OR IRE Transactions on Antennas and Propagation Institute of Radio Engineers. Professional Group on Antennas and Propagation,1961 **Radio Engineering and Electronic Physics** ,1975 **The Electrical Engineering Handbook,Second Edition** Richard C. Dorf,1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry government or academia This well organized book is divided into 12 major sections that encompass the entire field of electrical engineering including circuits signal processing electronics electromagnetics electrical effects and devices and energy and the emerging trends in the fields of communications digital devices computer engineering systems and biomedical engineering A compendium of physical

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   - Chapter 3: Geometrical And Trigonometric Optics Problem To Solution in Everyday Life
   - Chapter 4: Geometrical And Trigonometric Optics Problem To Solution in Specific Contexts
   - Chapter 5: Conclusion

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