



Wave Optics

Light Propagation

Light is a form of energy which generally gives the sensation of sight.

(1) Different theories

Newton's corpuscular theory	Huygen's wave theory	Maxwell's EM wave theory	Einstein's quantum theory	de-Broglie's dual theory of light
(i) Based on Rectilinear propagation of light (ii) Light propagates in the form of tiny particles called Corpuscles. Colour of light is due to different size of corpuscles	(i) Light travels in a hypothetical medium ether (high elasticity very low density) as waves (ii) He proposed that light waves are of longitudinal nature. Later on it was found that they are transverse	(i) Light travels in the form of EM waves with speed in free space $c = \frac{1}{\sqrt{\mu_0 \epsilon_0}}$ (ii) EM waves consists of electric and magnetic field oscillation and they do not require material medium to travel	(i) Light is produced, absorbed and propagated as packets of energy called photons (ii) Energy associated with each photon $E = h\nu = \frac{hc}{\lambda}$ h = planks constant $= 6.6 \times 10^{-34} \text{ J} \cdot \text{sec}$ ν = frequency λ = wavelength	(i) Light propagates both as particles as well as waves (ii) Wave nature of light dominates when light interacts with light. The particle nature of light dominates when the light interacts with matter (microscopic particles)

(2) Optical phenomena explained (✓) or not explained (×) by the different theories of light

S. No.	Phenomena	Theory				
		Corpuscular	Wave	E.M. wave	Quantum	Dual
(i)	Rectilinear Propagation	✓	✓	✓	✓	✓
(ii)	Reflection	✓	✓	✓	✓	✓
(iii)	Refraction	✓	✓	✓	✓	✓
(iv)	Dispersion	×	✓	✓	×	✓
(v)	Interference	×	✓	✓	×	✓

Wave Optics Notes For Iit Jee

**Subhasish Dutta Gupta, Nirmalya
Ghosh, Ayan Banerjee**



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IIT JEE Physics Notes , IIT JEE Physics Notes Table of Contents Chapter 1 Units and Measurements 3 Chapter 2 Motion in a Straight Line 13 Chapter 3 Motion in a Plane 25 Chapter 4 Laws of Motion 35 Chapter 5 Work Energy and Power 45 Chapter 6 System of Particles and Rotational Motion 56 Chapter 7 Gravitation 66 Chapter 8 Mechanical Properties of Solids 77 Chapter 9 Mechanical Properties of Fluids 87 Chapter 10 Thermal Properties of Matter 98 Chapter 11 Thermodynamics 107 Chapter 12 Kinetic Theory 116 Chapter 13 Oscillations 126 Chapter 14 Waves 138 Chapter 15 Electric Charges and Fields 149 Chapter 16 Electrostatic Potential and Capacitance 158 Chapter 17 Current Electricity 170 Chapter 18 Moving Charges and Magnetism 182 Chapter 19 Magnetism and Matter 191 Chapter 20 Electromagnetic Induction 200 Chapter 21 Alternating Current 210 Chapter 22 Electromagnetic Waves 221 Chapter 23 Ray Optics and Optical Instruments 230 Chapter 24 Wave Optics 240 Chapter 25 Dual Nature of Radiation and Matter 251 Chapter 26 Atoms 261 Chapter 27 Nuclei 271 Chapter 28 Semiconductor Electronics Materials Devices and Simple Circuits 282 **Iit-Jee Main and Advanced Physics** Subhash Jain,2022-07-01 The new edition of IIT JEE Main Highlights of the Book Exam Pattern and Physics Syllabus for JEE Main and Advanced included An Analysis of IIT JEE included Chapter wise Theory detailed with 1000 examples 5000 Chapter wise Multiple Choice Questions 2500 Chapter wise Different Format Questions Chapter wise Assessment Test Chapter wise HOTS Problems Experimental Skills from Class XI XII Experiments Relativistic Mechanics Appendix Tables Glossary JEE Main and Advanced Mock Test NEET Mock Test Answers to Questions included with Explanations Presence of accurate Figures and Tables Physics is a combination of experimenting observation and the analysis of phenomena with mathematical and computational tools Thus this book serves to be a suitable Study Guide for the aspirants with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level With provision for self assessment in Mock Tests this book stands beneficial in imprinting concepts in the mind *Foundations of Physics* R. S. Gambhir,D. Banerjee,1993 The Book Has Been Written In Two Volumes Volume One Deals With Mechanics Waves And Heat And Volume Two With Electricity Magnetism Optics And Modern Physics The Emphasis Is On Basic Concepts Which Have Been Developed In A Coherent Manner From The Very Beginning Apart From Covering The Entire Cbse Syllabus For Class Xi And Class Xii The Book Goes Beyond Its Confines And Becomes More Broad Based As Such Wider Coverage Of Topics Should Provide Flexibility In Its Use In Various States In This Format The Book Should Be Acceptable In Other Countries Also Si Units Have Been Followed Theoretical Details Of Laboratory Experiments Usually Performed And Instruments Used At This Level Have Been Given The Discussion And Problems At The End Of Each Chapter Form An Integral Part Of The Text As Quite A Few Topics Have Been Introduced Through Them **Magnetic Effect of Current for JEE Advanced & Main** Disha Experts,2019-10-21 30 Days to Success: The Ultimate Revision Blueprint For NEET-UG IIT-JEE & Other Competitive Exams Dr Giriraj Vishwakarma,2025-01-21 Ace Your Competitive Exams in Just 30 Days 30 Days to Success The

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Elementary Wave Optics Robert H. Webb,2005-04-12 This undergraduate textbook presents thorough coverage of the standard topics of classical optics and optical instrument design it also offers significant details regarding the concepts of modern optics Two sets of problems appear at the end of each chapter some featuring detailed solutions 252 figures 1969 edition

Lecture Notes on Optics & Modern Physics- Physics Galaxy (JEE Mains & Advance, BITSAT, NEET, AIIMS) - Vol. IV Ashish Arora,2021-12-04 Lecture Notes in Optics Modern Physics are aimed to ensure fundamental understanding and advance applications of concepts of students The book will act as a valuable supplement for the aspirants of JEE Mains and Advance BITSAT NEET and AIIMS All lecture notes in the book are linked with their video explanations and are available online at Physics Galaxy The World s Largest Video Encyclopedia of high school physics lectures

Vol 27: Wave Optics: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School SATYAM SIR,2021-08-01 Learn Wave Optics which is divided into various sub topics Each topic has plenty of problems in an adaptive difficulty wise From basic to advanced level with gradual increment in the level of difficulty The set of problems on any topic almost covers all varieties of physics problems related to the chapter Wave Optics If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams this Physics eBook will really help you to master this chapter completely in all aspects It is a Collection of Adaptive Physics Problems in Wave Optics for SAT Physics AP Physics 11 Grade Physics IIT JEE Mains and Advanced NEET Olympiad Level Book Series Volume 27 This Physics eBook will cover following Topics for Wave Optics 1 Interference of Light 2 Maxima Minima 3 Young s Double Slit Experiment 4 Optical Path YDSE 5 Modified YDSE 6 Diffraction 7 Polarization 8 Huygens Principle 9 Doppler s Shift 10 Chapter Test The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been

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Wave Optics J. Petykiewicz, 2010-12-15 In this volume the properties of light waves in isotropic and anisotropic media are discussed on the basis of the electromagnetic nature of light Diffraction of light is described for scalar waves and electromagnetic waves using theories like Kirchhoff's diffraction theory the boundary diffraction wave of Young Rubinowicz the Larmor Lorentz principle etc A unified approach involving Fourier optics is adapted to describe the diffractive theory of image formation The basic principles of the Rayleigh scattering are discussed and the essence of various processes of scattering of light as well as their classification are included Further topics include the influence of spatial dispersion on wave propagation physical principles of holography nonlinear optical effects geometrical approximation in optics elements of optical planar waveguides P The book will be of interest to researchers in optoelectronics and optical engineering and graduate students in physics and engineering

Wave Optics Subhasish Dutta Gupta, Nirmalya Ghosh, Ayan Banerjee, 2015-10-15 This book combines classical optics with some of the latest developments in the field to provide an appreciation and understanding of advanced research topics Requiring only a basic knowledge of electromagnetic theory and mathematics the text covers the fundamentals of wave optics focusing on concepts related to advances in negative materials and superresolution reflectionless potentials plasmonics spin orbit interaction optical tweezers Pendry lensing and more The book includes MATLAB codes for specific research problems and draws parallels with corresponding quantum problems whenever possible to broaden the horizon

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Wave Optics and Its Applications Rajpal S. Sirohi, 1993

Wave Optics: Interference and Diffraction C. Curry, 1959

Guided Wave Optics Alan Rolf Mickelson, 2012-12-06 This book has grown out of a need for a beginning graduate level text which emphasizes the unifying concepts of the field of guided wave optics Over the past twenty years progress in this field has been so rapid and therefore so helter skelter that it is hard even for the fully involved practitioner no less the aspiring student to see the unifying concepts As will be discussed more fully below there are at present quite a number of texts in the guided

wave area These texts vary in nature from the popular treatise to the voluminous scholarly work I know of none however that treats the waveguide semi conductor laser fiber and fiber component and integrated optic component all on equal footing using the forms of Maxwell s equations in polarizable media and coupled forms of Maxwell s equations as unifying tools This book emphasizes basic concepts yet is quantitative in nature and contains numerous applications The book is designed to be used by the beginning graduate student or the professional who needs to review or catch up on the basics Here at the University of Colorado this text is generally used for a follow up course to one in Physical Optics The Physical Optics text employed also written by the present author primarily includes material which should be familiar to students with a strong background in optics or practitioners of guided waves *Wave Optics: Interference and Diffraction* C. Curry,1957 Wave Optics R. K. Verma,2006 This book Wave Optics provides an international to optics and is mainly intended for under graduate students of science and engineering This book aim to provide the necessary foundation in wave optics which prepare the students for an intensive study of advanced topics in optics at a later stage Much of optics requires a good knowledge of mathematics The inherernt harmony in the theory of co axial image forming system is not realised in many texts In the present text special care has been taken to emphasis this Contents Vibrations and Waves Propagation of Light Waves The Electromagnetic Theory of Light Interference of Light I Interference of Light II Diffraction of Light I Diffraction of Light II Coherence Resolving Power of Optical Instruments **Wave Optics And Its Applications** R.S. Sirohi,1993 This Book Analyses The Electromagnetic Nature Of Light The Properties Of Light Waves Such As Coherence The Applications Of Interference To Length Metrology Of Optical Testing And The Role Of Diffraction In Image Forming And Spectroscopic Instruments It Also Discusses Topics Such As Interference Diffraction And Holography On The Basis Of Scalar Theory And The Basics Of Optical Data Processing The Final Chapter On Metrology Deals With The Measurement Of Commonly Encountered Parameters With The Help Of Laser Based Instruments Wave Optics George Asimellis,2019 This third volume of the series Lectures in Optics provides a comprehensive presentation of the Wave Optics effects The arguments regarding the concept of light wave or particle were actually part of the greatest revolution in physics which in the early 20th century bore the modern quantum and atomic optics and as a byproduct the laser Several aspects of optics are strongly dependent on its wave nature These include polarization the vectorial nature of light absorption and dispersion hailing from the complex nature of the refractive index as well as the quantum nature of the photon interference and diffraction The latter two are perhaps the greatest manifestations of the wave nature of light It is often said that interference and diffraction are the two faces of the same coin they are both manifestations of the wave nature and provide an excellent demonstration of the power and simplicity of the Fourier Optics concepts Finally the book introduces the concepts of laser and its application in a historical as well as in a didactic approach *Guided Wave Optics and Photonic Devices* Shyamal Bhadra,Ajoy Ghatak,2013-05-08 Guided Wave Optics and Photonic Devices introduces readers to a broad cross section of topics in this

area from the basics of guided wave optics and nonlinear optics to biophotonics The book is inspired by and expands on lectures delivered by distinguished speakers at a three week school on guided wave optics and devices organized at the CSIR Central Glass and Ceramic Research Institute in Kolkata in 2011 An Introduction to Guided Wave Optics and Photonic Devices Principles Applications and Future Directions The book discusses the concept of modes in a guided medium from first principles emphasizing the importance of dispersion properties in optical fibers It describes fabrication and characterization techniques of rare earth doped optical fibers for amplifiers and lasers with an eye to future applications Avoiding complex mathematical formalism it also presents the basic theory and operational principles of fiber amplifiers and lasers The book examines techniques for writing fiber Bragg gratings which are of particular interest for smart sensing applications A chapter focuses on the fundamental principles of Fourier optics and its implementation in guided wave optics In addition the book explains the critical phenomena of soliton dynamics and supercontinuum generation in photonic crystal fiber including its fabrication process and characteristics It also looks at plasmonics in guided media and nonlinearity in stratified media both key areas for future research The last chapter explores the importance of lasers in biophotonic applications Written by experts engaged in teaching research and development in optics and photonics this reference brings together fundamentals and recent advances in one volume It offers a valuable overview of the field for students and researchers alike and identifies directions for future research in guided wave and photonic device technology

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