



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

SATYAM SIR



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Elementary Wave Optics Robert H. Webb,2012-09-14 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 1969 edition

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Wave Optics J. Petykiewicz,1992-07-31 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

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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

Wave Optics R. K. Verma, 2006 This book Wave Optics provides an introduction to optics and is mainly intended for under graduate students of science and engineering This book aims to provide the necessary foundation in wave optics which prepares 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 inherent harmony in the theory of coaxial image forming system is not realised in many texts In the present text special care has been taken to emphasise 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

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 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

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