

A Textbook Of Optics S Chand

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this textbook has been designed to provide necessary foundation in optics which would not only acquaint the student with the subject but would also prepare for an intensive study of advanced topics in optics at a later stage with an emphasis on concepts mathematical derivations have been kept at the minimum this textbook has been primarily written for undergraduate students of b sc physics and would also be a useful resource for aspirants appearing for competitive examinations

textbook of physical optics is a classic text on fundamentals of modern physical optics covering experimental and theoretical evolution of understanding of phenomenon of light the book systematically develops the mathematical background to the study of p

this book has been written for the students of b sc physics of various indian universities the book covers the syllabi prescribed by madras bharathiyan bharathidhasan madurai kamraj and manonmaniam sundaranar universities si system of units has been used throughout the text proper care has been taken in dealing with the subject with modern outlook a large number of questions and problems have been given at the end of each chapter students should attempt to tackle them properly for better insight and understanding of the subject

this book is designed to serve as a textbook for courses offered to upper undergraduate students enrolled in physics and explains the broad spectrum of optics in a student friendly way the textbook covers the entire syllabi of the undergraduate courses being taught at both national and international universities including adequate details of mathematical expressions to help students understand the subject matter the topics covered in this book are reflection refraction cardinal points interference fresnel diffraction fraunhofer diffraction lasers and holography fiber optics etc this book explains each topic in a simple and lucid language with the help of solved problems exercises with multiple choice questions have been given at the end of each chapter for self assessment the detailed coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in senior undergraduate and beginning postgraduate physics students

this book ray optics cover the syllabus of ray optics for most of the universities in india the language of this book has been kept simple as could be consistent with precision and brevity detained descriptions of experiments are not given it is sincerely hoped that fellow teachers will find this text book exciting and the student will find it interesting and useful criticism and suggestions for further improvement shall be gratefully acknowledged contents light fermat s principle and its applications ray optics lenses cardinal points of an optical system thick lenses matrix methods dispersion lens aberrations optical instruments speed of light

optics has been a subject of fascinating investigation in the last three centuries by a large number of eminent scientists with the advent of modern technologies personal computers internet and specialized software like matlab new methods and tools for the solution of problems encountered in optics are now available written with the student of physics and engineering in mind this textbook shows how to solve the typical examination questions in addition the author has included the solutions of many real and difficult problems encountered by the practicing physicists and engineers the book is liberally and beautifully illustrated with diagrams from the matlab software readers can refer to matlab scripts using a complementary virtual booklet optics as com that will also include corrections to unavoidable errors present in this book supplementary problems and readers suggestions

a textbook on lasers and optical engineering should include all aspects of lasers and optics however this is a large undertaking the objective of this book is to give an introduction to the subject on a level such that under graduate students mostly juniors seniors from disciplines like electrical engineering physics and optical engineering can use the book to achieve this goal a lot of basic background material central to the subject has been covered in optics and laser physics students with an elementary knowledge of freshman physics and with no formal courses in electromagnetic theory should be able to follow the book although for some sections knowledge of electromagnetic theory the fourier transform and linear systems would be highly beneficial there are excellent books on optics laser physics and optical engineering actually most of my knowledge was acquired through these however when i started teaching an undergraduate course in 1974 under the same heading as the title of this book i had to use

four books to cover the material i thought an electrical engineer needed for his introduction to the world of lasers and optical engineering in my sabbatical year 1980 1981 i started writing class notes for my students so that they could get through the course by possibly buying only one book eventually these notes grew with the help of my undergraduate and graduate students and the final result is this book

this textbook provides a sound foundation in physical optics by covering key concepts in a rigorous but accessible manner propagation of electromagnetic waves is examined from multiple perspectives with explanation of which viewpoints and methods are best suited to different situations after an introduction to the theory of electromagnetism reflection refraction and dispersion topics such as geometrical optics interference diffraction coherence laser beams polarization crystallography and anisotropy are closely examined optical elements including lenses mirrors prisms classical and fabry perot interferometers resonant cavities multilayer dielectric structures interference and spatial filters diffraction gratings polarizers and birefringent plates are treated in depth the coverage also encompasses such seldom covered topics as modeling of general astigmatism via 4x4 matrices fft based numerical methods and bianisotropy with a relativistic treatment of optical activity and the faraday and fresnel fizeau effects finally the history of optics is discussed

this introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary the authors are seasoned educators with decades of experience teaching optics their approach is to gradually present mathematics explaining the physical concepts it covers ray tracing to the wave nature of light and introduces maxwell s equations in an organic fashion the text then moves on to explains how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics ajawad i haija is a professor of physics at indiana university of pennsylvania m z numan is professor and chair of the department of physics at indiana university of pennsylvania w larry freeman is emeritus professor of physics at indiana university of pennsylvania

this applications oriented book covers a variety of interrelated topics under the study of optics for physics and engineering it covers lasers and fiber optics emphasizing applications to the optics of vision for optometry it discusses the optics of the eye geometrical optics interference diffraction and polarization key topics emphasizing the optics of vision the book presents a vital and interesting applications of optical principles it also includes several specialized sections on vision a history of vision and spectacles the use of vergences to handle refraction of the eye the use of vergence to handle errors in refraction of the eye optics of cylindrical lenses and application to astigmatism aberrations in vision structures and optical models of the eye and the use of lasers in therapy for ocular defects market a valuable reference on optics for professional optometrists physicists and engineers

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