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Description This incisive text provides a basic undergraduate-level course in modern optics for students in physics, technology and engineering. The first half of the book deals with classical physical optics; the second principally with the quantum nature of light.

Introduction to Modern Optics : Grant R. Fowles ...

This paper is an introduction to an elegant and powerful technique in modern optics: Pound–Drever–Hall laser frequency stabilization. This introduction is primarily meant to be conceptual, but it includes enough quantitative detail to allow the reader to immediately design a real setup, suitable for research or industrial application.

A complete basic undergraduate course in modern optics for students in physics, technology, and engineering. The first half deals with classical physical optics; the second, quantum nature of light. Solutions.

Authoritative introduction covers the role of Green's function in mathematical physics, essential differences between spatial and time filters, fundamental relations of paraxial optics, and effects of aberration terms on image formation. "An excellent book; well-organized, and well-written." — Journal of the Optical Society of America. 80 illustrations. 1963 edition.

Modern Optics is a fundamental study of the principles of optics using a rigorous physical approach based on Maxwell's Equations. The treatment provides the mathematical foundations needed to understand a number of applications such as laser optics,

fiber optics and medical imaging covered in an engineering curriculum as well as the traditional topics covered in a physics based course in optics. In addition to treating the fundamentals in optical science, the student is given an exposure to actual optics engineering problems such as paraxial matrix optics, aberrations with experimental examples, Fourier transform optics (Fresnel-Kirchhoff formulation), Gaussian waves, thin films, photonic crystals, surface plasmons, and fiber optics. Through its many pictures, figures, and diagrams, the text provides a good physical insight into the topics covered. The course content can be modified to reflect the interests of

the instructor as well as the student, through the selection of optional material provided in appendixes.

This thorough and self-contained introduction to modern optics covers, in full, the three components: ray optics, wave optics and quantum optics. Examples of modern applications in the current century are used extensively.

Principles of Optics: Electromagnetic Theory of Propagation, Interference and Diffraction of Light, Sixth Edition covers optical phenomenon that can be treated with Maxwell's phenomenological theory. The book is comprised of 14 chapters

that discuss various topics about optics, such as geometrical theories, image forming instruments, and optics of metals and crystals. The text covers the elements of the theories of interference, interferometers, and diffraction. The book tackles several behaviors of light, including its diffraction when exposed to ultrasonic waves. The selection will be most useful to researchers whose work involves understanding the behavior of light.

Clear, accessible guide requires little prior knowledge and considers just two topics: paraxial imaging and polarization. Lucid discussions of paraxial imaging properties of a centered optical

system, optical resonators and laser beam propagation, matrices in polarization optics and propagation of light through crystals, much more. 60 illustrations. Appendixes. Bibliography.

Introduction to Optics is now available in a re-issued edition from Cambridge University Press. Designed to offer a comprehensive and engaging introduction to intermediate and upper level undergraduate physics and engineering students, this text also allows instructors to select specialized content to suit individual curricular needs and goals. Specific features of the text, in terms of coverage beyond traditional areas, include

extensive use of matrices in dealing with ray tracing, polarization, and multiple thin-film interference; three chapters devoted to lasers; a separate chapter on the optics of the eye; and individual chapters on holography, coherence, fiber optics, interferometry, Fourier optics, nonlinear optics, and Fresnel equations.

Classic detailed treatment for practical designer. Fundamental concepts, systematic study and design of all types of optical systems. Reader can then design simpler optical systems without aid. Part Two of Two.

The following is a text taught to engineering and applied science

students at the NYU Tandon (Polytechnic) School of Engineering in 2017 and 2018. The course met for four hours a week during one fourteen week semester. Unlike other texts in Modern Optics this text is intended to be used by students in both engineering and applied science at a junior or senior level, and to support specialized interdisciplinary applied optics courses given at a graduate level, such as Bio-Optics. By introducing it in the junior year students with interest arrive fresh from their introductory physics courses. The course emphasizes fundamentals starting with Maxwell's equations, which is where the introductory physics sequence ends, and applies these fundamentals to

current interests in applied science and technology. Appropriate to the level of the course, the mathematics represents Maxwell's Equations in their integral form. Where advanced math was added (e.g. Fourier Transform), the students were introduced to this as if taught in an applied math course.Take-home Experiments: There are also take-home laboratory experiment assignments dispersed within the text, and requiring a small inventory of parts (e.g. transmission diffraction grating, red laser pointer, aspheric lens, 1" diameter acrylic sphere, and dye solution). With these parts and common things found around a typical home, 9 experiments

are assigned to support the concepts taught in the course. One of these involves turning a Smart phone into a microscope. Another turns a Smart phone into a spectrometer, and a third uses the phone as a photometer.Applications: Some of the many applications discussed are Optical Tweezers, Holographic Diffraction Grating, Demystifying the structure of DNA from Rosalind Franklin's X-ray diffraction image (Photo 51), Fourier Transform Infrared Spectroscopy (FTIR), nano-plasmonics, Fabry-Perot resonator, Whispering Gallery Mode sensor, LASER, Confocal microscope, and Super high-resolution microscopy (STED).

Directed toward physicists and engineers interested in the device applications enabled by nonlinear optics, this text is suitable for advanced undergraduates and graduate students. Its content is presented entirely on a classical basis and requires only an elementary knowledge of quantum mechanics. The authors demonstrate how real laboratory situations can diverge from ideal theory, acquainting readers with the kinds of problems common to construction of a nonlinear device. They also offer a detailed discussion of the practical problems and characteristics of nonlinear materials, as well as the selection procedures necessary to ensure the use of good material. Their treatment begins with an

introduction to the theories of linear and nonlinear optics, along with the basic ideas behind them. Succeeding chapters explore phase matching and nonlinear materials, followed by detailed treatments of second-harmonic generation, parametric up-conversion, and optical parametric amplification and oscillation. Appendixes offer a comprehensive list of materials and their properties; the text concludes with references and an index.

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