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Optics - Wikipedia

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A groundbreaking textbook on twenty-first-century waves of all sorts and their applications Kip Thorne and Roger Blandford's monumental Modern Classical Physics is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject. Optics is an essential introduction to a resurgent subject. "Optics" originally referred to the study of light, but today the field encompasses all types of waves, including electromagnetic waves, from gamma rays to radio waves; gravitational waves; waves in solids, fluids, and plasmas; and quantum waves. The past few decades have seen revolutions in optics—amazing advances in nonlinear optics technology, a growing understanding of optical phenomena throughout the natural world, and an increasing appreciation of the wide-ranging applicability of optics' central principles. Optics shows how and why this subject—which was once a standard part of physics curricula—should again be routinely taught to physics students, as well as to students in engineering, computer science, and the natural sciences. Includes many exercise problems Features color figures, suggestions for further reading, extensive cross-references, and a detailed index Optional "Track 2" sections make this an ideal book for a one-quarter, half-semester, or full-semester course An online illustration package is available to professors The five volumes, which are available individually as paperbacks and ebooks, are Statistical Physics; Optics; Elasticity and Fluid Dynamics; Plasma Physics; and Relativity and Cosmology.

A concise, readable introduction to classical and modern optics. Designed for persons interested in the scientific and engineering applications of optics, as well as ophthalmic professionals. Provides a lean presentation of the entire field of optics, from the geometrical aspects of lenses to the relativity of image formation. Contains frequent references to the historical development of optics. Contains a detailed discussion of the most modern developments such as optical data processing, holography, lasers, and laser applications. For individuals in the fields of physics, engineering, or optometry.

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An up-to-date perspective on laser technology for students at advanced undergraduate or introductory graduate level. The principles of operation and applications of modern laser systems are analysed in detail. The text has over 300 diagrams and each chapter is accompanied with questions (solutions available on application).

Covering a broad range of fundamental topics in classical optics and electro-magnetism, this book is ideal for graduate-level courses in optics, providing supplementary reading materials for teachers and students alike. Industrial scientists and engineers developing modern optical systems will also find it an invaluable resource. Now in color, this second edition contains 13 new chapters, covering optical pulse compression, the Hanbury Brown-Twiss experiment, the Sagnac effect, Doppler shift and stellar aberration, and optics of semiconductor diode lasers. The first half of the book deals primarily with the basic concepts of optics, while the second half describes how these concepts can be used in a variety of technological applications. Each chapter is concerned with a single topic, developing an understanding through the use of diagrams, examples, numerical simulations, and logical arguments. The mathematical content is kept to a minimum to provide the reader with insightful discussions of optical phenomena.

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