Optics Hecht 4th Edition

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Optical Physics CRC Press Balancing concise mathematical analysis with real-world examples and practical applications, to provide a clear and approachable introduction to wave phenomena.

Coherent Optics Tata McGraw-Hill Education Accurate, authoritative, and comprehensive, Optics, Fourth Edition has been revised to provide students with the most up-to-date coverage of optics. The

market leader for over a decade, this text provides a balance of theory and instrumentation, while also including the necessary classical background. The writing style is lively and accessible.

Principles of Optics

McGraw-Hill Companies

For courses in Introduction to Fiber Optics and Introduction to Optical Networking in departments of Electronics Technology and Electronics Engineering Technology. Also suitable for corporate training programs. Ideal for technicians, entry-level engineers, and other nonspecialists, this best-selling practical, thorough, and accessible introduction to fiber optics reflects the expertise of an author who has followed the field for over 25 years. Using a non-theoretical/non-mathematical approach, it explains the principles of optical fibers, describes components and how they work, explores the tools and techniques used to work with them and the devices used to connect fiber network, and concludes with applications showing how fibers are used in modern communication systems. It covers both existing systems and developing technology, so students can understand present systems and new developments.

Fundamentals and Applications

Princeton University Press

This book is the result of more than ten years of research and teaching in the field of quantum electronics. The purpose of the book is to introduce the

principles of lasers, starting from elementary notions of quantum mechanics and electromagnetism. Because it is an introductory book, an effort has been made to make it self contained to minimize the need for reference to other works. For the same reason; the references have been limited (whenever possible) either to review papers or to papers of seminal importance. The organization of the book is based on the fact that a laser can be thought of as consisting of three elements: (i) an active material, (ii) a pumping system, and (iii) a suitable resonator. Ac cordingly, after an introductory chapter, the next three chapters deal, respectively, with the interaction of radiation with matter, pumping processes, and the theory of passive optical resonators.

Modern Classical Optics

CreateSpace

Beam is the story of the race to make the laser, the three intense years from the birth of the laser idea to its breakthrough demonstration in a California laboratory. The quest was a struggle against physics, established wisdom, and the

establishment itself. In 1954, Charles Townes invented the laser's microwave cousin, the maser. The next logical step was to extend the same physical principles to the shorter wavelengths of light, but the idea did not catch fire until October 1957, when Townes asked Gordon Gould about Gould's research on using light to excite thallium atoms. Each took the idea and ran with it. The independent-minded Gould sought the fortune of an independent inventor; the professorial Townes sought the fame of scientific recognition. Townes enlisted the help of his brother-in-law, Arthur Schawlow, and got Bell Labs into the race. Gould turned his ideas into a patent borth ation and a million-dollar defense contract. They soon had company. Ali Javan, one of Townes's former students, began pulling 90-hour weeks at Bell Labs with colleague Bill Bennett. And far away in California a bright young physicist named Ted Maiman became a very dark horse in the race. While Schawlow proclaimed that ruby could never make a laser, Maiman slowly convinced himself it would. As others struggled with recalcitrant equipment and military secrecy, Maiman built a tiny and elegant device that fit in the palm of his hand. His ruby laser worked the first time he tried it, on May 16, 1960, but afterwards he had to battle for acceptance as the man who made the first laser. Beam is a fascinating tale of a remarkable and powerful invention that has become a symbol of modern technology.

An Introduction to Practical Laboratory Optics Oxford University Press on Demand
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.
Beam Weapons Addison Wesley Publishing Company
The material for these volumes has been selected from the past twenty years' examination questions for graduate students at University of California at Berkeley, Columbia University, the University of Chicago, MIT, State University of New York at Buffalo, Princeton University and University of Wisconsin.
Physics of Waves S. Chand Publishing
Ideal as a classroom text or for individual study, this unique one-volume overview of classical wave theory covers wave phenomena of acoustics, optics, electromagnetic radiations, and more.
Optics Cambridge University Press
A multimedia interactive guide to developing practical skills for optics research. Use as a class lab manual, an instructional tool or as an indispensable reference. In concise, high-def videos, various skills and techniques are demonstrated and explained. These cover topics for the novice, such as mounting and cleaning of optics, as well as for the more advanced learner, such as balanced detection, and lock-in amplifiers. Various interactive widgets let you simulate the experience of aligning a laser beam to an optical system, aligning an interferometer to get fringes, or adjust a Fabry-Perot cavity while observing the mode spectrum. Other tools help you quickly find the Gaussian beam parameters of your laser from measured beam radii, and to calculate the position of a lens or pair of lenses to mode match a laser to a cavity.
The Optics of Life Elsevier

Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Laboratory Optics

Cambridge University Press

Beam Weapons examines the directed-energy weapons that became a central part of the Reagan Administration's Strategic Defense Initiative, better known as "Star Wars." First published in 1984, it describes the science and technology behind directed energy weapons, the state of the art at the time Reagan launched the program, and the military issues involved. The first full-length book published on the topic, it exhaustively documents the technical and military realities and uncertainties.

Introduction to Optics Lulu.com

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.

Optics, 4e Oxford University Press

The whole story of laser weapons with a focus on its many interesting characters and sometimes bizarre schemes The laser--a milestone invention of the mid-twentieth century--quickly captured the imagination of the Pentagon as the key to the ultimate weapon. Veteran science writer Jeff Hecht tells the inside story of the adventures and misadventures of scientists and military strategists as they exerted Herculean though often futile efforts to adapt the laser for military uses. From the 1950s' sci-fi vision of the "death ray," through the Reagan administration's "Star Wars" missile defense system, to more promising developments today, Hecht provides an entertaining history. As the author illustrates, there has always been a great deal of enthusiasm and false starts surrounding lasers. He describes a giant laser that filled a Boeing 747, lasers powered like rocket engines, plans for an orbiting fleet of robotic laser battle stations to destroy nuclear missiles, claims that nuclear bombs could produce intense X-ray laser beams, and a scheme to bounce laser beams off giant orbiting relay mirrors. Those far-out ideas remain science fiction. Meanwhile, in civilian sectors, the laser is already being successfully used in fiber optic cables, scanners, medical devices, and industrial cutting tools. Now those laser cutting tools are leading to a new generation of laser weapons that just might stop insurgent rockets. Replete with interesting characters, bizarre schemes, and wonderful inventions, this is a well-told tale about the evolution of technology and the reaches of human ambition.

Optics Pearson Education India

Explains the scientific principles behind the workings of the laser, describes the characteristics of a laser beam, and looks at modern applications

LSC Fundamentals of Optics Courier Corporation
This text presents the history of the development of fibre optic technology, explaining the scientific challenges that needed to be overcome, the range of applications and future potential for this fundamental communications technology.
Schaum's Outline of Optics Jeff Hecht
Accurate, comprehensive and precise, this revision provides students with the most up-to-date coverage of optics. Responsive to students' needs, the focus of the revision was to fine-tune the pedagogy, modernize the discourse, and update the content. This book continues the gradually modernizing treatment of the previous edition by imparting an appreciation of the central role of atomic scattering, providing an understanding of the insightful perspective offered by the Fourier Theory, and by, from the outset, explicating the underlying quantum mechanical nature of light. Additionally, Hecht addresses all of today's significant technological advances.
With Problems and Solutions Peter Beyersdorf
Optics
Principles of Optics
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A tutorial introduction to fiber optics, which explains fundamental concepts of fiber optics, components and systems with minimal math. With more than 100,000 copies in print, Understanding Fiber Optics has been widely used in the classroom, for self study, and in corporate training since the first edition was published in 1987. This is a reprint of the 5th edition, originally published by Pearson Education and now available at low cost from Laser Light Press.

City of Light Cambridge University Press

This book on the laboratory teaching of optics is based on the author's experience during many years in several universities and colleges. It describes basic experiments in optics that are suitable for student laboratories at undergraduate and graduate levels and do not require specialized equipment or measurement techniques.

Understanding Fiber Optics Cambridge University Press

Accurate, authoritative and comprehensive, "Optics, Fourth Edition" has been revised to provide readers with the most up-to-date coverage

of optics. The market leader for over a decade, this book provides a balance of theory and instrumentation, while also including the necessary classical background. The writing style is lively and accessible. For college instructors, students, or anyone interested in optics.