

Lasers

V. S. Letokhov

Lasers A. E. Siegman, 1986 This is both a textbook and general reference on the subject of laser theory and basic laser principles. The book gives a detailed accurate treatment of laser physics which does not require a background in quantum mechanics.

Lasers Hans Joachim Eichler, Jürgen Eichler, Oliver Lux, 2018-11-19 This book provides a comprehensive overview of laser sources and their applications in various fields of science, industry, and technology. After an introduction to the basics of laser physics, different laser types and materials for lasers are summarized in the context of a historical survey, outlining the evolution of the laser over the past five decades. This includes, amongst other aspects, gas lasers, excimer lasers, the wide range of solid-state and semiconductor lasers, and femtosecond and other pulsed lasers where particular attention is paid to high-power sources. Subsequent chapters address related topics such as laser modulation and nonlinear frequency conversion. In closing, the enormous importance of the laser is demonstrated by highlighting its current applications in everyday life and its potential for future developments. Typical applications in advanced material processing, medicine and biophotonics as well as plasma and X-ray generation for nanoscale lithography are discussed. The book provides broad and topical coverage of laser photonics and opto-electronics, focusing on significant findings and recent advances rather than in-depth theoretical studies. Thus, it is intended not only for university students and engineers, but also for scientists and professionals applying lasers in biomedicine, material processing and everyday consumer products. Further, it represents essential reading for engineers using or developing high-power lasers for scientific or industrial

applications.

Understanding Lasers Jeff Hecht, 1988

Lasers Jean-Claude Diels, Ladan Arissian, 2011-10-17

Lasers are active ingredients of our modern life, but they are inconspicuous as they often go unnoticed. This intuitive introductory guide will tell you all you want to know about laser technologies in very diverse fields from nuclear and particle physics to medicine, astronomy and ultra-precise metrology. The book is coherently focused on fundamentals, and is aimed to stimulate intuition about present and future applications, while unveiling the halo of myths around lasers. Written by reputable laser experts who think that science should be entertaining, this useful reference relies on simple analogies and illustrations rather than complex mathematics, and will be suitable for students and end-users of laser technologies, including novices. Voted a CHOICE Outstanding Academic Title 2012

Pulsed Metal Vapour Lasers C.E. Little, N.V.

Sabotinov, 2012-12-06 A comprehensive, up-to-date review of the physics and applications of a major class of laser, the most important example of which is the copper vapour laser. A collection of 50 papers written by the world's leaders in the field. Papers cover: the early history of pulsed metal vapour lasers; the plasma kinetics and excitation mechanisms of self terminating and recombination metal vapour lasers; beam quality issues for applications; frequency harmonic generation for mid-UV applications; high-precision processing of metals, ceramics, glasses and plastics using metal vapour lasers; applications in medicine, including oncology and dermatology; applications in science such as spectroscopy and mass spectrometry. A practical source of information on the physics, engineering and applications of metal vapour lasers. Audience: scientists, teachers and graduate researchers working in the fields of

gas lasers, laser optics, gas discharges, optoelectronics and laser applications in industry, science and medicine.

Fundamentals of Light Sources and Lasers Mark Csele, 2011-09-23 A comprehensive introduction to the burgeoning field of photonics. The field of photonics is finding increasing applications across a broad range of industries. While many other books provide an overview of the subject, Fundamentals of Light Sources and Lasers closes a clear gap in the current literature by concentrating on the principles of laser operation as well as providing coverage of important concepts necessary to fully understand the principles involved. The scope of the book includes everything a professional needs to get up to speed in the field, as well as all the material necessary to serve as an excellent introductory laser course for students. Ideal for self-study as well as structured coursework, the book offers thorough coverage of: * The nature of light and atomic emission * Basic quantum mechanics and laser processes * Cavity optics, fast-pulse production, and nonlinear optical phenomena * Laser technology, including visible gas lasers, UV gas lasers, infrared gas lasers, solid-state lasers, semiconductor lasers and tunable dye lasers. Extensive real-world case studies are included to help readers appreciate the practical applications of the material covered. * An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Lasers and Masers, 1966

Lasers and Nuclei Heinrich Schworer, Joseph Magill, Burgard Beleites, 2006-08-29 Lasers and Nuclei describes the generation of high-energy-particle radiation with high-intensity lasers and its application to nuclear science. A basic introduction to laser-matter interaction at high fields is complemented by detailed presentations of

state of the art laser particle acceleration and elementary laser nuclear experiments. The text also discusses future applications of lasers in nuclear science, for example in nuclear astrophysics, isotope generation, nuclear fuel physics and proton and neutron imaging.

Power Lasers and Their Applications V. S. Letokhov, 1983

Essentials of Lasers L. Allen, 2013-10-22 *Essentials of Lasers* outlines the essential principles upon which laser action depends. This book is organized into two parts encompassing 18 chapters that specifically discuss the basic theory of lasers and resonator theory. The first part deals with the principles and application of several types of lasers, including crystalline solid, gas, and semiconductor lasers. The second part describes first the features and uses of infrared and optical lasers. These topics are followed by reviews of the different components of lasers, such as amplifier and interferometer. Considerable chapters in this part contain experiments concerning the fluorescent relaxation processes and infrared emission from trivalent uranium. The remaining chapters deal with the coherent light emission from GaAs junctions and the burning hole effects in He-Ne optical laser. This book will prove useful to laser scientists, physicists, and researchers.

Handbook of Lasers Marvin J. Weber, 2019-04-30 Lasers continue to be an amazingly robust field of activity. Anyone seeking a photon source is now confronted with an enormous number of possible lasers and laser wavelengths to choose from, but no single, comprehensive source to help them make that choice. The *Handbook of Lasers* provides an authoritative compilation of lasers, their properties, and original references in a readily accessible form. Organized by lasing media-solids, liquids, and gases-each section is subdivided into distinct laser types. Each

type carries a brief description, followed by tables listing the lasing element or medium, host, lasing transition and wavelength, operating properties, primary literature citations, and, for broadband lasers, reported tuning ranges. The importance and value of the Handbook of Lasers cannot be overstated. Serving as both an archive and as an indicator of emerging trends, it reflects the state of knowledge and development in the field, provides a rapid means of obtaining reference data, and offers a pathway to the literature. It contains data useful for comparison with predictions and for developing models of processes, and may reveal fundamental inconsistencies or conflicts in the data.

Gas Lasers Masamori Endo, Robert F.

Walter, 2018-10-03 Lasers with a gaseous active medium offer high flexibility, wide tunability, and advantages in cost, beam quality, and power scalability. Gas lasers have tended to become overshadowed by the recent popularity and proliferation of semiconductor lasers. As a result of this shift in focus, details on modern developments in gas lasers are difficult to find. In addition, different types of gas lasers have unique properties that are not well-described in other references. Collecting expert contributions from authorities dealing with specific types of lasers, *Gas Lasers* examines the fundamentals, current research, and applications of this important class of laser. It is important to understand all types of lasers, from solid-state to gaseous, before making a decision for any application. This book fills in the gaps by discussing the definition and properties of gaseous media along with its fluid dynamics, electric excitation circuits, and optical resonators. From this foundation, the discussion launches into the basic physics, characteristics, applications, and current research efforts for specific types of gas lasers: CO lasers, CO₂ lasers, HF/DF lasers, excimer

lasers, iodine lasers, and metal vapor lasers. The final chapter discusses miscellaneous lasers not covered in the previous chapters. Collecting hard-to-find material into a single, convenient source, Gas Lasers offers an encyclopedic survey that helps you approach new applications with a more complete inventory of laser options.

Lasers Forrest M. Mims, 1977 Explains the common operating principles of lasers; their diverse roles in industry, medicine, communications, and the military; and their potential in solving the energy crisis.

Principles of Lasers Orazio Svelto, D. C. Hanna, 2013-06-29 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. Accordingly, 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.

Lasers John R. Whinnery, National Academy of Engineering, 1987-01-15 Since the initial laser beam in 1960, use of lasers has mushroomed, opening new frontiers in medicine, manufacturing, communications, defense, and information storage and retrieval. Lasers: Invention to

Application brings together a series of chapters by eminent scientists spanning the broad range of today's laser technology.

Medical Applications of Lasers D.R. Vij,K.

Mahesh,2013-11-27 A careful review of the literature covering various aspects of applications of lasers in science and technology reveals that lasers are being applied very widely throughout the entire gamut of physical medicine. After surveying the current developments taking place in the field of medical applications of lasers, it was considered appropriate to bring together these efforts of international research scientists and experts into one volume. It is with this aim that the editors have prepared this volume which brings current research and recent developments to the attention of a wide spectrum of readership associated with hospitals, medical institutions and universities world wide, including also the medical instrument industry. Both teachers and students in the medical faculties will especially find this compendium quite useful. This book is comprised of eleven chapters. All of the important medical applications of lasers are featured. The editors have made every effort that individual chapters are self-contained and written by experts. Emphasis has been placed on straight and simple presentation of the subject matter so that even the new entrants into the field will find the book of value.

The Laser Guidebook Jeff Hecht,1986

Industrial Applications of Lasers John F.

Ready,1997-04-25 A practical book with a variety of uses, this book can help applications engineers spark problem-solving techniques through the use of lasers. Industrial Application of Lasers, Second Edition takes the reader through laser fundamentals, unusual properties of laser light, types of practical lasers available, and commonly used accessory equipment. The book also applies this

information to existing and developing applications. Current uses of lasers, including laser welding and cutting, electronic fabrication techniques, lightwave communications, laser-based applications in alignment, surveying, and metrology are all covered as well as discussing the potential for future applications such as all-optical computers, remote environmental monitoring, and laser-assisted thermonuclear fusion. Explains basic laser fundamentals as well as emphasizing how lasers are used for real applications in industry Describes the importance of laser safety Discusses potentially important future applications such as remote environmental monitoring Includes rare expert lore and opinion

Tunable Laser Applications Frank Duarte, 1995-08-18

This work details tunable laser applications of broad interest, historical significance and potential future value. Atomic and molecular spectroscopy, interferometry, lightening triggering, imaging, laser radar, lidar and gyroscopes are discussed. The work focuses on various sources of coherent radiation such as optical parametric oscillators, external cavity semiconductor lasers, and dye, gas, CO₂, ultrashort-pulse and free-electron lasers.

Long-Wavelength Infrared Semiconductor Lasers Hong

K. Choi, 2004-03-18 Long-wavelength Infrared Semiconductor Lasers provides a comprehensive review of the current status of semiconductor coherent sources emitting in the mid-to far-infrared spectrum and their applications. It includes three topics not covered in any previous book: far-infrared emission from photo-mixers as well as from hot-hole lasers, and InP-based lasers emitting beyond two micrometers. Semiconductor lasers emitting at more than two micrometers have many applications such as in trace gas analysis, environmental monitoring, and industrial process control. Because of very rapid progress in

recent years, until this book no comprehensive information beyond scattered journal articles is available at present.

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