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Principles of Nano-Optics - Lukas Novotny

2012-09-06

Fully revised and in its second edition, this standard reference on nano-optics is ideal for graduate students and researchers alike.

Optoelectronics and Photonics - Safa O. Kasap

2013

For one-semester, undergraduate-level courses in Optoelectronics and Photonics, in the departments of electrical engineering, engineering physics, and materials science and engineering.

This text takes a fresh look at the enormous developments in electro-optic devices and associated materials.

Lasers and Optoelectronics - Anil K. Maini

2013-08-05

With emphasis on the physical and engineering

principles, thisbook provides a comprehensive and highly accessible treatment ofmodern lasers and optoelectronics. Divided into four parts, itexplains laser fundamentals, types of lasers, laser electronics& optoelectronics, and laser applications, covering each of thetopics in their entirety, from basic fundamentals to advancedconcepts. Key features include: exploration of technological and application-related aspects oflasers and optoelectronics, detailing both existing and emergingapplications in industry, medical diagnostics and therapeutics,scientific studies and Defence. simple explanation of the concepts and essential information onelectronics and circuitry related to laser systems illustration of numerous solved and unsolved problems,practical examples, chapter

summaries, self-evaluation exercises, and a comprehensive list of references for further reading. This volume is a valuable design guide for R&D engineers and scientists engaged in design and development of lasers and optoelectronics systems, and technicians in their operation and maintenance. The tutorial approach serves as a useful reference for undergraduate and graduate students of lasers and optoelectronics, also PhD students in electronics, optoelectronics and physics.

Organic Optoelectronics - Wenping Hu

2012-11-05

Written by internationally recognized experts in the field with academic as well as industrial experience, this book concisely yet systematically covers all aspects of the topic. The monograph focuses on the optoelectronic behavior of organic solids and their application in new optoelectronic devices. It covers organic field-effect and organic electroluminescent materials and devices, organic photonics, materials and devices, as well as organic solids in photo absorption and energy conversion. Much emphasis is laid on the preparation of functional materials and the fabrication of devices, from materials synthesis and purification, to physicochemical properties and the basic processes and working principles of the devices. The only book to cover fundamentals, applications, and the latest research results, this is a handy reference for

both researchers and those new to the field. From the contents: * Electronic process in organic solids * Organic/polymeric semiconductors for field-effect transistors * Organic/polymeric field-effect transistors * Organic circuits and organic single molecular transistors * Polymer light-emitting Diodes (PLEDs): devices and materials * Organic solids for photonics * Organic photonic devices * Organic solar cells based on small molecules * Polymer solar cells * Dye-sensitized solar cells (DSSCs) * Organic thermoelectric power devices

Introduction to Aberrations in Optical Imaging Systems - José Sasián 2013

An accessible, well presented introduction to the theory of optical aberrations, covering key topics that are often missing from comparable books.

Diode Lasers and Photonic Integrated Circuits - Larry A. Coldren 2012-03-02

Diode Lasers and Photonic Integrated Circuits, Second Edition provides a comprehensive treatment of optical communication technology, its principles and theory, treating students as well as experienced engineers to an in-depth exploration of this field. Diode lasers are still of significant importance in the areas of optical communication, storage, and sensing. Using the the same well received theoretical foundations of the first edition, the Second Edition now introduces timely updates in the technology and in focus of the book. After 15 years of development in the field,

this book will offer brand new and updated material on GaN-based and quantum-dot lasers, photonic IC technology, detectors, modulators and SOAs, DVDs and storage, eye diagrams and BER concepts, and DFB lasers. Appendices will also be expanded to include quantum-dot issues and more on the relation between spontaneous emission and gain.

Semiconductor Physics and Devices - Donald A. Neamen 2003

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

An Introduction to Fiber Optics - Ajoy Ghatak 1998-06-28

Textbook on the physical principles of optical fibers - for advanced undergraduates and graduates in physics or electrical engineering.

Optics, Optoelectronics, and Photonics - Alan Billings 1993

With an emphasis on engineering rather than physics, this book on the developing technology of optoelectronics emphasizes, via the consistent use of Fourier optics and system impulse response, the ideas of "system response" through input-output relationships.

X-Rays and Extreme Ultraviolet Radiation - David

Attwood 2017-02-16

Master the physics and understand the current applications of modern X-ray and EUV sources with this fully updated second edition.

Introduction to non-Kerr Law Optical Solitons - Anjan Biswas 2006-11-10

Despite remarkable developments in the field, a detailed treatment of non-Kerr law media has not been published. Introduction to non-Kerr Law Optical Solitons is the first book devoted exclusively to optical soliton propagation in media that possesses non-Kerr law nonlinearities. After an introduction to the basic features of fiber-optic com

Introduction to Nanophotonics - Sergey V. Gaponenko 2010-04-08

Nanophotonics is where photonics merges with nanoscience and nanotechnology, and where spatial confinement considerably modifies light propagation and light-matter interaction.

Describing the basic phenomena, principles, experimental advances and potential impact of nanophotonics, this graduate-level textbook is ideal for students in physics, optical and electronic engineering and materials science. The textbook highlights practical issues, material properties and device feasibility, and includes the basic optical properties of metals, semiconductors and dielectrics. Mathematics is kept to a minimum and theoretical issues are reduced to a conceptual level. Each chapter ends in problems

so readers can monitor their understanding of the material presented. The introductory quantum theory of solids and size effects in semiconductors are considered to give a parallel discussion of wave optics and wave mechanics of nanostructures. The physical and historical interplay of wave optics and quantum mechanics is traced. Nanoplasmonics, an essential part of modern photonics, is also included.

Neuromorphic Photonics - Paul R. Prucnal

2017-05-08

This book sets out to build bridges between the domains of photonic device physics and neural networks, providing a comprehensive overview of the emerging field of "neuromorphic photonics." It includes a thorough discussion of evolution of neuromorphic photonics from the advent of fiber-optic neurons to today's state-of-the-art integrated laser neurons, which are a current focus of international research. *Neuromorphic Photonics* explores candidate interconnection architectures and devices for integrated neuromorphic networks, along with key functionality such as learning. It is written at a level accessible to graduate students, while also intending to serve as a comprehensive reference for experts in the field.

Introduction to Optical and Optoelectronic Properties of Nanostructures - Vladimir V. Mitin

2019-03-21

A rigorous guide providing a unified,

multidisciplinary treatment of the fundamentals of optical and optoelectronic nanostructures.

Photonics and Lasers - Richard S. Quimby

2006-04-14

An introduction to photonics and lasers that does not rely on complex mathematics. This book evolved from a series of courses developed by the author and taught in the areas of lasers and photonics. This thoroughly classroom-tested work fills a unique need for students, instructors, and industry professionals in search of an introductory-level book that covers a wide range of topics in these areas. Comparable books tend to be aimed either too high or too low, or they cover only a portion of the topics that are needed for a comprehensive treatment. *Photonics and Lasers* is divided into four parts: * Propagation of Light * Generation and Detection of Light * Laser Light * Light-Based Communication. The author has ensured that complex mathematics does not become an obstacle to understanding key physical concepts. Physical arguments and explanations are clearly set forth while, at the same time, sufficient mathematical detail is provided for a quantitative understanding. As an additional aid to readers who are learning to think symbolically, some equations are expressed in words as well as symbols. Problem sets are provided throughout the book for readers to test their knowledge and grasp of key concepts. A solutions manual is also available for instructors. Finally, the detailed

bibliography leads readers to in-depth explorations of particular topics. The book's topics, lasers and photonics, are often treated separately in other texts; however, the author skillfully demonstrates their natural synergy. Because of the combined coverage, this text can be used for a two-semester course or a one-semester course emphasizing either lasers or photonics. This is a perfect introductory textbook for both undergraduate and graduate students, additionally serving as a practical reference for engineers in telecommunications, optics, and laser electronics.

Handbook of Optoelectronics - John P. Dakin
2017-10-05

Handbook of Optoelectronics offers a self-contained reference from the basic science and light sources to devices and modern applications across the entire spectrum of disciplines utilizing optoelectronic technologies. This second edition gives a complete update of the original work with a focus on systems and applications. Volume I covers the details of optoelectronic devices and techniques including semiconductor lasers, optical detectors and receivers, optical fiber devices, modulators, amplifiers, integrated optics, LEDs, and engineered optical materials with brand new chapters on silicon photonics, nanophotonics, and graphene optoelectronics. Volume II addresses the underlying system technologies enabling state-of-the-art communications, imaging, displays, sensing, data processing, energy

conversion, and actuation. Volume III is brand new to this edition, focusing on applications in infrastructure, transport, security, surveillance, environmental monitoring, military, industrial, oil and gas, energy generation and distribution, medicine, and free space. No other resource in the field comes close to its breadth and depth, with contributions from leading industrial and academic institutions around the world. Whether used as a reference, research tool, or broad-based introduction to the field, the Handbook offers everything you need to get started. John P. Dakin, PhD, is professor (emeritus) at the Optoelectronics Research Centre, University of Southampton, UK. Robert G. W. Brown, PhD, is chief executive officer of the American Institute of Physics and an adjunct full professor in the Beckman Laser Institute and Medical Clinic at the University of California, Irvine.

Optical Fiber Communications - T. L. Singal 2016
"Discusses several dispersion-management schemes that restore amplified signal to its original state"--

Introduction to the Theory of Coherence and Polarization of Light - Emil Wolf 2007-10-11

All optical fields undergo random fluctuations. They may be small, as in the output of many lasers, or they may be appreciably larger, as in light generated by thermal sources. The underlying theory of fluctuating optical fields is known as coherence theory. An important

manifestation of the fluctuations is the phenomenon of partial polarization. Actually, coherence theory deals with considerably more than fluctuations. Unlike usual treatments, it describes optical fields in terms of observable quantities and elucidates how such quantities, for example, the spectrum of light, change as light propagates. This book is the first to provide a unified treatment of the phenomena of coherence and polarization. The unification has been made possible by very recent discoveries, largely due to the author of this book. The subjects treated in this volume are of considerable importance for graduate students and for research workers in physics and in engineering, who are concerned with optical communications, with propagation of laser beams through fibers and through the turbulent atmosphere, with optical image formation, particularly in microscopes, and with medical diagnostics, for example. Each chapter contains problems to aid self-study. Book jacket.

Introduction to Optical Engineering - Francis T. S. Yu 1997-05-13

Optical devices are employed in an ever-increasing range of applications, from simple lenses to complex fibre-optic communication networks. This book provides a detailed introduction to modern optical engineering, covering the fundamental concepts as well as practical techniques and applications. Basic optical principles are presented, particularly

reflection, refraction, aberrations, diffraction and interference. Building on this foundation, a wide variety of optical devices and processes are then discussed, including simple optical instruments, photodetectors, spatial light modulators, holography and lasers. Two chapters are devoted to linear system transforms and signal processing, and the book concludes with a chapter on fibre optics. The book contains many worked examples and over 250 problems (solutions manual for instructors available from the publishers). It will be invaluable to electrical engineering and physics undergraduates taking courses in optical engineering, photonics, and electro-optics.

Computational Liquid Crystal Photonics - Salah Obayya 2016-05-31

Optical computers and photonic integrated circuits in high capacity optical networks are hot topics, attracting the attention of expert researchers and commercial technology companies. Optical packet switching and routing technologies promise to provide a more efficient source of power, and footprint scaling with increased router capacity; integrating more optical processing elements into the same chip to increase on-chip processing capability and system intelligence has become a priority. This book is an in-depth look at modelling techniques and the simulation of a wide range of liquid crystal based modern photonic devices with enhanced high levels of flexible integration and

enhanced power processing. It covers the physics of liquid crystal materials; techniques required for modelling liquid crystal based devices; the state-of-the-art liquid crystal photonic based applications for telecommunications such as couplers, polarization rotators, polarization splitters and multiplexer-demultiplexers; liquid core photonic crystal fiber (LC-PCF) sensors including biomedical and temperature sensors; and liquid crystal photonic crystal based encryption systems for security applications. Key features Offers a unique source of in-depth learning on the fundamental principles of computational liquid crystal photonics. Explains complex concepts such as photonic crystals, liquid crystals, waveguides and modes, and frequency- and time-domain techniques used in the design of liquid crystal photonic crystal photonic devices in terms that are easy to understand. Demonstrates the useful properties of liquid crystals in a diverse and ever-growing list of technological applications. Requires only a foundational knowledge of mathematics and physics.

Silicon-Based Photonics - Erich Kasper

2020-07-24

Silicon photonics has evolved rapidly as a research topic with enormous application potential. The high refractive index contrast of silicon-on-insulator (SOI) shows great promise for submicron waveguide structures suited for

integration on the chip scale in the near-infrared region. Ge- and GeSn-Si heterostructures with different elastic strain levels already provide expansion of the spectral range, high-speed operation, efficient modulation and switching of optical signals, and enhanced light emission and lasing. This book focuses on the integration of heterostructure devices with silicon photonics. The authors have attempted to merge a concise treatment of classical silicon photonics with a description of principles, prospects, challenges, and technical solution paths of adding silicon-based heterostructures. The book discusses the basics of heterostructure-based silicon photonics, system layouts, and key device components, keeping in mind the application background. Special focus is placed on SOI-based waveguide configurations and Ge- and GeSn-Si heterostructure devices for light detection, modulation, and light emission and lasing. The book also provides an overview of the technological and materials science challenges connected with integration on silicon. The first half of the book is mainly for readers who are interested in the topic because of its increasing importance in different fields, while the latter half covers different device structures for light emission, detection, modulation, extension of the wavelength beyond 1.6 μm , and lasing, as well as future challenges.

Lasers and Electro-optics - Christopher C. Davis

2014-03-20

Covering a broad range of topics in modern optical physics and engineering, this textbook is invaluable for undergraduate students studying laser physics, optoelectronics, photonics, applied optics and optical engineering. This new edition has been re-organized, and now covers many new topics such as the optics of stratified media, quantum well lasers and modulators, free electron lasers, diode-pumped solid state and gas lasers, imaging and non-imaging optical systems, squeezed light, periodic poling in nonlinear media, very short pulse lasers and new applications of lasers. The textbook gives a detailed introduction to the basic physics and engineering of lasers, as well as covering the design and operational principles of a wide range of optical systems and electro-optic devices. It features full details of important derivations and results, and provides many practical examples of the design, construction and performance characteristics of different types of lasers and electro-optic devices.

Optical Tweezers - Philip H. Jones 2015-12-03

A comprehensive guide to the theory, practice and applications of optical tweezers, combining state-of-the-art research with a strong pedagogic approach.

Computational Photonics - Marek S. Wartak

2013-01-10

A comprehensive manual on the efficient modeling and analysis of photonic devices

through building numerical codes, this book provides graduate students and researchers with the theoretical background and MATLAB programs necessary for them to start their own numerical experiments. Beginning by summarizing topics in optics and electromagnetism, the book discusses optical planar waveguides, linear optical fiber, the propagation of linear pulses, laser diodes, optical amplifiers, optical receivers, finite-difference time-domain method, beam propagation method and some wavelength division devices, solitons, solar cells and metamaterials. Assuming only a basic knowledge of physics and numerical methods, the book is ideal for engineers, physicists and practising scientists. It concentrates on the operating principles of optical devices, as well as the models and numerical methods used to describe them.

Optical Physics - Ariel Lipson 2010-10-28

This fourth edition of a well-established textbook takes students from fundamental ideas to the most modern developments in optics. Illustrated with 400 figures, it contains numerous practical examples, many from student laboratory experiments and lecture demonstrations. Aimed at undergraduate and advanced courses on modern optics, it is ideal for scientists and engineers. The book covers the principles of geometrical and physical optics, leading into quantum optics, using mainly Fourier transforms

and linear algebra. Chapters are supplemented with advanced topics and up-to-date applications, exposing readers to key research themes, including negative refractive index, surface plasmon resonance, phase retrieval in crystal diffraction and the Hubble telescope, photonic crystals, super-resolved imaging in biology, electromagnetically induced transparency, slow light and superluminal propagation, entangled photons and solar energy collectors. Solutions to the problems, simulation programs, key figures and further discussions of several topics are available at www.cambridge.org/lipson.

Classical Optics and Its Applications - Masud Mansuripur 2002-02-07

Covering a broad range of fundamental topics in classical optics and electro-magnetism, this updated, second edition contains 13 new chapters, which cover many topics of fundamental significance as well as practical importance. 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 of the subject 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.

Solutions Manual for Quanta, Matter and Change

- Peter Atkins 2009-04-17

Emerging Challenges for Experimental Mechanics in Energy and Environmental Applications, Proceedings of the 5th International Symposium on Experimental Mechanics and 9th Symposium on Optics in Industry (ISEM-SOI), 2015 - Amalia Martínez-García 2016-10-13

This book contains papers of the 5th International Symposium on Experimental Mechanics (5-ISEM) and the 9th Symposium on Optics in Industry (9-SOI), whose general theme is Emerging Challenges for Experimental Mechanics in Energy and Environmental Applications. These symposia are organized by Centro de Investigaciones en Optica (CIO) and Mexican Academy for Optics (AMO), under the sponsorship of the Society of Experimental Mechanics (SEM) and other national and international Organizations; Symposia are interdisciplinary forums for engineers, technicians, researchers and managers involved in all fields of Optics, Opto-mechatronics, Mechanics and Mechanical Engineering. · Addresses a broad readership including graduate and postgraduate students, researchers, and engineers working in experimental mechanics and in the application of optical methods · Covers a broad spectrum of topics highlighting the use of optical methods in experimental mechanics, energy, and in the environment

Principles of Scattering and Transport of Light -

Rémi Carminati 2021-07-29

A systematic and accessible treatment of light scattering and transport in disordered media from first principles.

Fundamentals of Laser Optoelectronics (Second

Edition) - See Leang Chin, Huailiang Xu and

Shuai Yuan

Transport of Information-Carriers in

Semiconductors and Nanodevices - El-Saba,

Muhammad 2017-03-31

Rapid developments in technology have led to enhanced electronic systems and applications. When utilized correctly, these can have significant impacts on communication and computer systems. *Transport of Information-Carriers in Semiconductors and Nanodevices* is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices. Including a range of perspectives on relevant topics such as charge carriers, semiclassical transport theory, and organic semiconductors, this is an ideal publication for engineers, researchers, academics, professionals, and practitioners interested in emerging developments on transport equations that govern information carriers.

Principles of Photonics - Jia-Ming Liu 2016-08-19

With this self-contained and comprehensive text, students will gain a detailed understanding of the

fundamental concepts and major principles of photonics. Assuming only a basic background in optics, readers are guided through key topics such as the nature of optical fields, the properties of optical materials, and the principles of major photonic functions regarding the generation, propagation, coupling, interference, amplification, modulation, and detection of optical waves or signals. Numerous examples and problems are provided throughout to enhance understanding, and a solutions manual containing detailed solutions and explanations is available online for instructors. This is the ideal resource for electrical engineering and physics undergraduates taking introductory, single-semester or single-quarter courses in photonics, providing them with the knowledge and skills needed to progress to more advanced courses on photonic devices, systems and applications.

Numerical Methods in Photonics - Andrei V.

Lavrinenko 2018-09-03

Simulation and modeling using numerical methods is one of the key instruments in any scientific work. In the field of photonics, a wide range of numerical methods are used for studying both fundamental optics and applications such as design, development, and optimization of photonic components. Modeling is key for developing improved photonic devices and reducing development time and cost. Choosing the appropriate computational method for a photonics

modeling problem requires a clear understanding of the pros and cons of the available numerical methods. Numerical Methods in Photonics presents six of the most frequently used methods: FDTD, FDFD, 1+1D nonlinear propagation, modal method, Green's function, and FEM. After an introductory chapter outlining the basics of Maxwell's equations, the book includes self-contained chapters that focus on each of the methods. Each method is accompanied by a review of the mathematical principles in which it is based, along with sample scripts, illustrative examples of characteristic problem solving, and exercises. MATLAB® is used throughout the text. This book provides a solid basis to practice writing your own codes. The theoretical formulation is complemented by sets of exercises, which allow you to grasp the essence of the modeling tools.

[Integrated Photonics](#) - Clifford Pollock 2013-06-29

From the beginning Integrated Photonics introduces numerical techniques for studying non-analytic structures. Most chapters have numerical problems designed for solution using a computational program such as Matlab or Mathematica. An entire chapter is devoted to one of the numeric simulation techniques being used in optoelectronic design (the Beam Propagation Method), and provides opportunity for students to explore some novel optical structures without too much effort. Small pieces of code are supplied

where appropriate to get the reader started on the numeric work. Integrated Photonics is designed for the senior/first year graduate student, and requires a basic familiarity with electromagnetic waves, and the ability to solve differential equations with boundary conditions. *An Engineer's Guide to Automated Testing of High-Speed Interfaces, Second Edition* - Jose Moreira 2016-04-30

This second edition of An Engineer's Guide to Automated Testing of High-Speed Interfaces provides updates to reflect current state-of-the-art high-speed digital testing with automated test equipment technology (ATE). Featuring clear examples, this one-stop reference covers all critical aspects of automated testing, including an introduction to high-speed digital basics, a discussion of industry standards, ATE and bench instrumentation for digital applications, and test and measurement techniques for characterization and production environment. Engineers learn how to apply automated test equipment for testing high-speed digital I/O interfaces and gain a better understanding of PCI-Express 4, 100Gb Ethernet, and MIPI while exploring the correlation between phase noise and jitter. This updated resource provides expanded material on 28/32 Gbps NRZ testing and wireless testing that are becoming increasingly more pertinent for future applications. This book explores the current trend of merging high-speed digital testing within the fields of

photonic and wireless testing.

Photonic Crystals - John D. Joannopoulos

2011-10-30

Since it was first published in 1995, *Photonic Crystals* has remained the definitive text for both undergraduates and researchers on photonic band-gap materials and their use in controlling the propagation of light. This newly expanded and revised edition covers the latest developments in the field, providing the most up-to-date, concise, and comprehensive book available on these novel materials and their applications. Starting from Maxwell's equations and Fourier analysis, the authors develop the theoretical tools of photonics using principles of linear algebra and symmetry, emphasizing analogies with traditional solid-state physics and quantum theory. They then investigate the unique phenomena that take place within photonic crystals at defect sites and surfaces, from one to three dimensions. This new edition includes entirely new chapters describing important hybrid structures that use band gaps or periodicity only in some directions: periodic waveguides, photonic-crystal slabs, and photonic-crystal fibers. The authors demonstrate how the capabilities of photonic crystals to localize light can be put to work in devices such as filters and splitters. A new appendix provides an overview of computational methods for electromagnetism. Existing chapters have been considerably updated and expanded to include many new

three-dimensional photonic crystals, an extensive tutorial on device design using temporal coupled-mode theory, discussions of diffraction and refraction at crystal interfaces, and more. Richly illustrated and accessibly written, *Photonic Crystals* is an indispensable resource for students and researchers. Extensively revised and expanded Features improved graphics throughout Includes new chapters on photonic-crystal fibers and combined index-and band-gap-guiding Provides an introduction to coupled-mode theory as a powerful tool for device design Covers many new topics, including omnidirectional reflection, anomalous refraction and diffraction, computational photonics, and much more.

Optical Electronics - Ajoy K. Ghatak 1991

Optoelectronic Devices - M Razeghi 2004

Tremendous progress has been made in the last few years in the growth, doping and processing technologies of the wide bandgap semiconductors. As a result, this class of materials now holds significant promise for semiconductor electronics in a broad range of applications. The principal driver for the current revival of interest in III-V Nitrides is their potential use in high power, high temperature, high frequency and optical devices resistant to radiation damage. This book provides a wide number of optoelectronic applications of III-V nitrides and covers the entire process from

growth to devices and applications making it essential reading for those working in the semiconductors or microelectronics. Broad review of optoelectronic applications of III-V nitrides
Introducing Photonics - Brian Culshaw

2020-07-30

A concise, accessible guide explaining the essential ideas underlying photonics and how they relate to photonic devices and systems.

[Polarisation of Light](#) - William Spottiswoode 1891