

Optical And Quantum Electronics Journal

Christopher Gerry, Peter L. Knight

Introduction to Quantum Electronics and Nonlinear Optics Vitaliy V. Shtykov, Sergey M. Smolskiy, 2020-03-21 This textbook, based on the authors' class-tested material, is accessible to students at the advanced undergraduate and graduate level in physics and engineering. While its primary function is didactic, this book's comprehensive choice of topics and its clear and authoritative synthesis of ideas make it a useful reference for researchers, device engineers, and course instructors who wish to consolidate their knowledge of this field. The book takes the semi-classical approach where light is treated as a wave in accordance with the classical Maxwell equations, while matter is governed by quantum theory. It begins by introducing the postulates and mathematical framework of quantum theory, followed by the formalism of the density matrix which allows the transition from microscopic (quantum) quantities to macroscopic (classical) ones. Consequently, the equations describing the reaction of matter to the electromagnetic field in the form of polarization, magnetization, and current are derived. These equations (together with the Maxwell equations) form the complete system of equations sufficient to model a wide class of problems surrounding linear and nonlinear interactions of electromagnetic fields with matter. The nonlinear character of the governing equations determines parameters of the steady-state mode of the quantum generator and is also demonstrated in harmonic generation via propagation of laser radiation in various media. The touchstone description of magnetic phenomena will be of interest to scientists who deal with applications of magneto-resonance phenomena in biology and medicine. Other advanced topics covered include electric dipole transitions, magnetic dipole transitions, plasma transitions, and the devices that can be based on these and other electro-optical and nonlinear-optical systems. This textbook features numerous exercises, some of which are investigatory and some of which require computational solutions.

Quantum Electronics Amnon Yariv, 1989-01-17 The text has been revised to incorporate new developments in lasers and quantum electronics. Other subjects covered include phase-conjugate optics, long wavelength quaternary semiconductor lasers, the physics of semiconductor lasers, laser arrays and free-electron lasers.

Electromagnetic Noise and Quantum Optical Measurements Hermann A. Haus, 2012-12-06 From the reviews: Haus' book provides numerous insights on topics of wide importance, and contains much material not available elsewhere in book form. [...] an indispensable resource for those working in quantum optics or electronics. Optics & Photonics News

Optical Coherence and Quantum Optics Leonard Mandel, Emil Wolf, 1995-09-29 This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, foundations of radiometry, effects of source coherence on the spectra of radiated fields, coherence theory of laser modes, and scattering of partially coherent light by random media.

Computational Electronics Dragica Vasileska, Stephen M. Goodnick, 2022-06-01 Computational Electronics is devoted to state of the art numerical techniques and physical models used in the simulation of semiconductor devices from a semi-classical perspective. Computational electronics, as a part of the general Technology Computer Aided Design (TCAD) field, has become increasingly important as the cost of semiconductor manufacturing has grown exponentially, with a concurrent need to reduce the time from design to manufacture. The motivation for this volume is the need within the modeling and simulation community for a comprehensive text which spans basic drift-diffusion modeling, through energy balance and hydrodynamic models, and finally particle based simulation. One unique feature of this book is a specific focus on numerical examples, particularly the use of commercially available software in the TCAD community. The concept for this book originated from a first year graduate course on computational electronics, taught now for several years, in the Electrical Engineering Department at Arizona State University. Numerous exercises and projects were derived from this course and have been included. The prerequisite knowledge is a fundamental understanding of basic semiconductor physics, the physical models for various device technologies such as pn diodes, bipolar junction transistors, and field effect transistors.

Nonlinear Photonics Hyatt M. Gibbs, Galina Khitrova, Nasser Peyghambarian, 2012-12-06 Nonlinear photonics is the name given to the use of nonlinear optical devices for the generation, communication, processing, or analysis of information. This book is a progress report on research into practical applications of such devices. At present, modulation, switching, routing, decision-making, and detection in photonic systems are all done with electronics and linear optoelectronic devices. However, this may soon change, as nonlinear optical devices, e.g. picosecond samplers and switches, begin to complement optoelectronic devices. The authors succinctly summarize past accomplishments in this field and point to hopes for the future, making this an ideal book for newcomers or seasoned researchers wanting to design and perfect nonlinear optical devices and to identify applications in photonic systems.

Fundamentals of Optical Fibers John A. Buck, 2004-04-27 Fundamentals of Optical Fibers, Second Edition offers readers a timely and consistent introduction to the fundamental principles of light propagation in fibers. In it, the author reviews, in depth, fundamental wave guiding concepts, the influence of various fiber structures and materials on light transmission, nonlinear light propagation effects occurring in fibers, and various measurement techniques. Since the chief application of optical fibers is in communication systems, throughout the book the focus is on topics, which pertain to that domain.

Quantum Theory of the Optical and Electronic Properties of Semiconductors Hartmut Haug, Stephan W

Koch, 1993-04-16 This substantially revised second edition of the Quantum Theory of the Optical and Electronic Properties of Semiconductors presents the basic elements needed to understand and engage in research in semiconductor physics. In this edition misprints have been corrected and new and more detailed material has been added. In order to treat the valence-band structure of semiconductors, an introduction to the k.p theory and the related description in terms of the Luttinger Hamiltonian was included. An introductory chapter on mesoscopic semiconductor structures was added which discusses the envelope function approximation and the modification caused by the spatial quantum confinement. In many chapters the results are developed in parallel first for bulk material, and then for quasi-two-dimensional quantum wells, and for quasi-one-dimensional quantum wires. Semiconductor quantum dots are treated in a separate chapter. The discussion of time-dependent and coherent phenomena in semiconductors has been considerably extended by including a section dealing with the theoretical description of photon echoes in semiconductors. After the discussion of semiconductor laser physics, optical bistability, and electroabsorption in semiconductors, a new chapter on magneto-absorption has been added, in which magneto-excitons and magneto-plasmas in two-dimensional systems are discussed. The chapter on electron kinetics due to the interaction with longitudinal-optical phonons has been extended and a discussion on carrier-carrier collisions has been added to the chapter dealing with the semiconductor Bloch equations. The material is presented in sufficient detail for graduate students and researchers who have a general background in quantum mechanics. Request Inspection Copy

Contents: Oscillator Model Atom in a Classical Light Field Periodic Lattice of Atoms Free Carrier Transitions Mesoscopic Semiconductor Structures Ideal Quantum Gases Interacting Electron Gas Plasmons and Plasma Screening Retarded Green's Function for Electrons Excitons Polaritons Semiconductor Bloch Equations Optical Quasi-Equilibrium Nonlinearities Optical Bistability The Semiconductor Laser Coherent Effects in Semiconductors Free-Carrier Electroabsorption Exciton Electroabsorption Magneto — Optics Semiconductor Quantum Dots Kinetics with Phonon Scattering Appendix A: Field Quantization Appendix B: Nonequilibrium Green's Functions Readership: Solid state physicists, engineers, materials and optical scientists.

Superconducting Devices in Quantum Optics Robert Hadfield, Göran Johansson, 2016-02-29 This book presents the basics and applications of superconducting devices in quantum optics. Over the past decade, superconducting devices have risen to prominence in the arena of quantum optics and quantum information processing. Superconducting detectors provide unparalleled performance for the detection of infrared photons in quantum cryptography, enable fundamental advances in quantum optics, and provide a direct route to on-chip optical quantum information processing. Superconducting circuits based on Josephson junctions provide a blueprint for scalable quantum information processing as well as opening up a new regime for quantum optics at microwave wavelengths. The new field of quantum acoustics allows the state of a

superconducting qubit to be transmitted as a phonon excitation. This volume, edited by two leading researchers, provides a timely compilation of contributions from top groups worldwide across this dynamic field, anticipating future advances in this domain.

Physics of Quantum Electron Devices Federico Capasso, 2013-03-07 The ability to engineer the bandstructure and the wavefunction over length scales previously inaccessible to technology using artificially structured materials and nanolithography has led to a new class of electron semiconductor devices whose operation is controlled by quantum effects. These structures not only represent exciting tools for investigating new quantum phenomena in semiconductors, but also offer exciting opportunities for applications. This book gives the first comprehensive treatment of the physics of quantum electron devices. This interdisciplinary field, at the junction between material science, physics and technology, has witnessed an explosive growth in recent years. This volume presents a detailed coverage of the physics of the underlying phenomena, and their device and circuit applications, together with fabrication and growth technology.

Quantum Statistics of Linear and Nonlinear Optical Phenomena Jan Perina, 2012-12-06 The quantum statistical properties of radiation represent an important branch of modern physics with rapidly increasing applications in spectroscopy, quantum generators of radiation, optical communication, etc. They have also an increasing role in fields other than pure physics, such as biophysics, psychophysics, biology, etc. Interesting applications have been developed in high energy elementary particle collisions. The present monograph represents an extension and continuation of the previous monograph by this author entitled *Coherence of Light* (Van Nostrand Reinhold Company, London 1972, translated into Russian in the Publishing House Mir, Moscow 1974, second edition published by D. Reidel, Dordrecht-Boston 1985) and of a review chapter in *Progress in Optics*, Vol. 18 (edited by E. Wolf, North-Holland Publishing Company, Amsterdam 1980) as well. It applies the fundamental tools of the coherent-state technique, as described in *Coherence of Light*, to particular studies of the quantum statistical properties of radiation interacting with matter. In particular, nonlinear optical processes are considered, and purely quantum phenomena such as antibunching of photons, their sub-Poisson behaviour and squeezing of vacuum fluctuations are discussed. Compared to the first edition of this book, published in 1984, we have added much more information about squeezing of vacuum fluctuations in nonlinear optical process in this second edition; further we have included the description of experiments and their results performed from that time. Also a new brief chapter on nonlinear dynamics and chaos in quantum statistical optics has been included.

Photonic Switching H. Scott Hinton, John E. Midwinter, 1990

Noise and Signal Interference in Optical Fiber Transmission Systems Stefano Bottacchi, 2008-11-20 A comprehensive reference to noise and signal interference in optical fiber communications *Noise and Signal Interference in Optical Fiber Transmission Systems* is a compendium on specific topics within optical fiber transmission and the optimization process of

the system design. It offers comprehensive treatment of noise and intersymbol interference (ISI) components affecting optical fiber communications systems, containing coverage on noise from the light source, the fiber and the receiver. The ISI is modeled with a statistical approach, leading to new useful computational methods. The author discusses the subject with the help of numerous applications and simulations of noise and signal interference theory. Key features: Complete all-in-one reference on the subject for engineers and designers of optical fiber transmission systems Discusses the physical principles behind several noise contributions encountered in the optical communications systems design, including contributions from the light source, the fiber and the receiver Covers the theory of the ISI for the binary signal, as well as noise statistics Discusses the theory and the mathematical models of the numerous noise components (such as optical noise, photodetection noise and reflection noise) Introduces the frequency description of the ISI and provides new calculation methods based on the characteristic functions Provides useful tools and examples for optimum design of optical fiber transmission networks and systems This book will serve as a comprehensive reference for researchers, R & D engineers, developers and designers working on optical transmission systems and optical communications. Advanced students in optical communications and related fields will also find this book useful.

Theory of Semiconductor Lasers Minoru Yamada, 2016-08-23 This book provides a unified and complete theory for semiconductor lasers, covering topics ranging from the principles of classical and quantum mechanics to highly advanced levels for readers who need to analyze the complicated operating characteristics generated in the real application of semiconductor lasers. The author conducts a theoretical analysis especially on the instabilities involved in the operation of semiconductor lasers. A density matrix into the theory for semiconductor lasers is introduced and the formulation of an improved rate equation to help understand the mode competition phenomena which cause the optical external feedback noise is thoroughly described from the basic quantum mechanics. The derivation of the improved rate equation will allow readers to extend the analysis for the different types of semiconductor materials and laser structures they deal with. This book is intended not only for students and academic researchers but also for engineers who develop lasers for the market, as the advanced topics covered are dedicated to real problems in implementing semiconductor lasers for practical use.

Fundamentals of Nonlinear Optics Peter E. Powers, Joseph W. Haus, 2017-04-27 Praise for the 1st Edition: well written and up to date.... The problem sets at the end of each chapter reinforce and enhance the material presented, and may give students confidence in handling real-world problems. —Optics & Photonics News rigorous but simple description of a difficult field keeps the reader's attention throughout.... serves perfectly for an introductory-level course. —Physics Today This fully revised introduction enables the reader to understand and use the basic principles related to many phenomena in nonlinear optics and provides the mathematical tools necessary to solve application-relevant problems. The book is a pedagogical guide aimed at a diverse audience including engineers, physicists, and chemists who want a tiered approach to understanding

nonlinear optics. The material is augmented by numerous problems, with many requiring the reader to perform real-world calculations for a range of fields, from optical communications to remote sensing and quantum information. Analytical solutions of equations are covered in detail and numerical approaches to solving problems are explained and demonstrated. The second edition expands the earlier treatment and includes: A new chapter on quantum nonlinear optics. Thorough treatment of parametric optical processes covering birefringence, tolerances and beam optimization to design and build high conversion efficiency devices. Treatment of numerical methods to solving sets of complex nonlinear equations. Many problems in each chapter to challenge reader comprehension. Extended treatment of four-wave mixing and solitons. Coverage of ultrafast pulse propagation including walk-off effects.

Introductory Quantum Optics Christopher Gerry, Peter L. Knight, 2005 Publisher Description

Optical Electronics Ajoy Kumar Ghatak, K. Thyagarajan, 1989-07-20 Intended for senior undergraduate students, a comprehensive account of optical electronics includes the basic principles concerning electromagnetic waves, laser theory, optical wave guides, fiber and integrated optics.

Frontiers in Optics and Photonics Federico Capasso, Dennis Couwenberg, 2021-06-08 This book provides a cutting-edge research overview on the latest developments in the field of Optics and Photonics. All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics, Optical properties of 2D Materials, Optical Sensors, Organic Opto-electronics, Nanophotonics, Metamaterials, Plasmonics, Quantum Cascade lasers, LEDs, Biophotonics and biomedical photonics and spectroscopy.

Photonics Modelling and Design Slawomir Sujecki, 2018-09-03 Photonics Modeling and Design delivers a concise introduction to the modeling and design of photonic devices. Assuming a general knowledge of photonics and the operating principles of fibre and semiconductor lasers, this book: Describes the analysis of the light propagation in dielectric media Discusses heat diffusion and carrier transport Applies the presented theory to develop fibre and semiconductor laser models Addresses the propagation of short optical pulses in optical fibres Puts all modeling into practical context with examples of devices currently in development or on the market Providing hands-on guidance in the form of MATLAB® scripts, tips, and other downloadable content, Photonics Modeling and Design is written for students and professionals interested in modeling photonic devices either for gaining a deeper understanding of the operation or to optimize the design.

Handbook of Optoelectronic Device Modeling and Simulation Joachim Piprek, 2017-10-12 Provides a comprehensive survey of fundamental concepts and methods for optoelectronic device modeling and simulation. Gives a broad overview of concepts with concise explanations illustrated by real results. Compares different levels of modeling, from simple analytical models to complex numerical models. Discusses practical methods of model validation. Includes an overview of numerical techniques.

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Table of Contents Optical And Quantum Electronics Journal

1. Understanding the eBook Optical And Quantum Electronics Journal
 - The Rise of Digital Reading Optical And Quantum Electronics Journal
 - Advantages of eBooks Over Traditional Books
2. Identifying Optical And Quantum Electronics Journal
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook

Platform

- Popular eBook Platforms
 - Features to Look for in an Optical And Quantum Electronics Journal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optical And Quantum Electronics Journal
 - Personalized Recommendations
 - Optical And Quantum Electronics Journal User Reviews and Ratings
 - Optical And Quantum Electronics Journal and Bestseller Lists
 5. Accessing Optical And Quantum Electronics Journal Free and Paid

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- Optical And Quantum Electronics Journal Public Domain eBooks
 - Optical And Quantum Electronics Journal eBook Subscription Services
 - Optical And Quantum Electronics Journal Budget-Friendly Options
6. Navigating Optical And Quantum Electronics Journal eBook Formats
 - ePub, PDF, MOBI, and More
 - Optical And Quantum Electronics Journal Compatibility with Devices
 - Optical And Quantum

- Electronics Journal
Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optical And Quantum Electronics Journal
 - Highlighting and Note-Taking Optical And Quantum Electronics Journal
 - Interactive Elements Optical And Quantum Electronics Journal
 8. Staying Engaged with Optical And Quantum Electronics Journal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optical And Quantum Electronics Journal
 9. Balancing eBooks and Physical Books Optical And Quantum Electronics Journal
 - Benefits of a Digital Library
 - Creating a Diverse Reading

- Collection Optical And Quantum Electronics Journal
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Optical And Quantum Electronics Journal
 - Setting Reading Goals Optical And Quantum Electronics Journal
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Optical And Quantum Electronics Journal
 - Fact-Checking eBook Content of Optical And Quantum Electronics Journal
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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