OPTOELECTRONIC DEVICES



Physics Of Optoelectronic Devices

W. W. Chow, Marek Osiânski, Society of Photo-Optical Instrumentation Engineers

Physics Of Optoelectronic Devices:

Physics of Optoelectronic Devices Shun Lien Chuang, 1995-09-08 Emphasizes the theory of semiconductor optoelectronic devices demonstrating comparisons between theoretical and experimental results Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum well semiconductors Details semiconductor lasers including double heterostructure stripe geometry gain guided semiconductor distributed feedback and surface emitting Systematically investigates high speed modulation of semiconductor lasers using linear and nonlinear gains Features new subjects such as the theories on the band structures of strained semiconductors and strained guantum well lasers Covers key areas behind the operation of semiconductor lasers modulators and photodetectors An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial Physics of Photonic Devices Shun Lien Chuang, 2012-11-07 The most up to date book available on the physics department of photonic devices This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field **Physics of Semiconductors** Kevin F. Brennan, 1999-02-13 Modern fabrication techniques have made it possible to produce semiconductor devices whose dimensions are so small that quantum mechanical effects dominate their behavior This book describes the key elements of quantum mechanics statistical mechanics and solid state physics that are necessary in understanding these modern semiconductor devices The author begins with a review of elementary quantum mechanics and then describes more advanced topics such as multiple quantum wells He then disusses equilibrium and nonequilibrium statistical mechanics Following this introduction he provides a thorough treatment of solid state physics covering electron motion in periodic potentials electron phonon interaction and recombination processes The final four chapters deal exclusively with real devices such as semiconductor lasers photodiodes flat panel displays and MOSFETs The book contains many homework exercises and is suitable as a textbook for electrical engineering materials science or physics students

taking courses in solid state device physics It will also be a valuable reference for practising engineers in optoelectronics and Semiconductor Optoelectronic Devices Joachim Piprek, 2013-10-22 Optoelectronics has become an related areas important part of our lives Wherever light is used to transmit information tiny semiconductor devices are needed to transfer electrical current into optical signals and vice versa Examples include light emitting diodes in radios and other appliances photodetectors in elevator doors and digital cameras and laser diodes that transmit phone calls through glass fibers Such optoelectronic devices take advantage of sophisticated interactions between electrons and light Nanometer scale semiconductor structures are often at the heart of modern optoelectronic devices. Their shrinking size and increasing complexity make computer simulation an important tool to design better devices that meet ever rising perfomance requirements The current need to apply advanced design software in optoelectronics follows the trend observed in the 1980 s with simulation software for silicon devices Today software for technology computer aided design TCAD and electronic design automation EDA represents a fundamental part of the silicon industry In optoelectronics advanced commercial device software has emerged recently and it is expected to play an increasingly important role in the near future This book will enable students device engineers and researchers to more effectively use advanced design software in optoelectronics Provides fundamental knowledge in semiconductor physics and in electromagnetics while helping to understand and use advanced device simulation software Demonstrates the combination of measurements and simulations in order to obtain realistic results and provides data on all required material parameters Gives deep insight into the physics of state of the art devices and helps to design and analyze of modern optoelectronic devices Physics of Optoelectronics Michael A. Parker, 2018-10-03 Physics of Optoelectronics focuses on the properties of optical fields and their interaction with matter Understanding that lasers LEDs and photodetectors clearly exemplify this interaction the author begins with an introduction to lasers LEDs and the rate equations then describes the emission and detection processes. The book summarizes and reviews the mathematical background of the quantum theory embodied in the Hilbert space These concepts highlight the abstract form of the linear algebra for vectors and operators supplying the pictures that make the subject more intuitive A chapter on dynamics includes a brief review of the formalism for discrete sets of particles and continuous media It also covers the quantum theory necessary for the study of optical fields transitions and semiconductor gain This volume supplements the description of lasers and LEDs by examining the fundamental nature of the light that these devices produce It includes an analysis of quantized electromagnetic fields and illustrates inherent quantum noise in terms of Poisson and sub Poisson statistics It explains matter light interaction in terms of time dependent perturbation theory and Fermi's golden rule and concludes with a detailed discussion of semiconductor emitters and detectors **Physics and Simulation of** Optoelectronic Devices XIII ,2005 Devices for Optoelectronics Wallace B. Leigh, 2021-05-30 Offers coverage of optical devices utilized in communication and information processing systems highlighting the physics of optoelectronics necessary

for both hybrid and monolithic optical integrated circuits The text aims to bridge the gap between thin film switches and active semiconductors by analyzing lithium niobate as well as compound semiconductor devices and includes discussion on Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. optical transmitters receivers and switches Ng,2021-03-03 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor's only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Semiconductor Optoelectronic Devices Joachim Piprek, 2003 This book builds a much needed bridge between theoretical and experimental research in optoelectronics by providing both fundamental knowledge in semiconductor physics and real world simulation examples

Physics and Simulation of Optoelectronic Devices IV Marek Osinski, Weng W. Chow, 1996

Optoelectronic Devices Joachim Piprek,2006-01-26 Optoelectronic devices transform electrical signals into optical signals and vice versa by utilizing the interaction of electrons and light Advanced software tools for the design and analysis of such devices have been developed in recent years However the large variety of materials devices physical mechanisms and modeling approaches often makes it difficult to select appropriate theoretical models or software packages This book

presents a review of devices and advanced simulation approaches written by leading researchers and software developers It is intended for scientists and device engineers in optoelectronics who are interested in using advanced software tools Each chapter includes the theoretical background as well as practical simulation results that help the reader to better understand internal device physics Real world devices such as edge emitting or surface emitting laser diodes light emitting diodes solar cells photodetectors and integrated optoelectronic circuits are investigated. The software packages described in the book are available to the public on a commercial or noncommercial basis so that the interested reader is quickly able to perform Physics of Optoelectronic Devices, Solutions Manual Shun Lien Chuang, 1997-08-22 Emphasizes the similar simulations theory of semiconductor optoelectronic devices demonstrating comparisons between theoretical and experimental results Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum well semiconductors Details semiconductor lasers including double heterostructure stripe geometry gain guided semiconductor distributed feedback and surface emitting Systematically investigates high speed modulation of semiconductor lasers using linear and nonlinear gains Features new subjects such as the theories on the band structures of strained semiconductors and strained quantum well lasers Covers key areas behind the operation of semiconductor lasers modulators and photodetectors An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department Optoelectronic Semiconductor Devices David Wood, 1994 Optoelectronic Semiconductor Devices is a comprehensive new textbook offering a complete blend of theory and practice Starting with basic semiconductor theory it moves on through a discussion of light emitters and detectors and then to their actual manufacture Features of the book include full coverage of basic semiconductors and semiconductor lasers not seen in most optoelectronic textbooks of this level treatment of all types of detectors not just pin and avalanche diodes details of materials and fabrication and extensive references conceptual and numerical problems and worked examples Optoelectronic Semiconductor Devices can be used by undergraduate and postgraduate students in departments of physics or electrical Nano-Optoelectronics Marius Grundmann, 2012-12-06 Traces the quest to use nanostructured media for engineering novel and improved optoelectronic devices Leading experts among them Nobel laureate Zhores Alferov write here about the fundamental concepts behind nano optoelectronics the material basis physical phenomena device physics and systems

Physics and Simulation of Optoelectronic Devices ,1999 Semiconductor Quantum Optoelectronics A. Miller,2020-12-18 The development and application of low dimensional semiconductors have been rapid and spectacular during the past decade Ever improving epitaxial growth and device fabrication techniques have allowed access to some remarkable new physics in quantum confined structures while a plethora of new devices has emerged The field of optoelectronics in particular has benefited from these advances both in terms of improved performance and the invention of fundamentally new types of device at a time when the use of optics and lasers in telecommunications broadcasting the

Internet signal processing and computing has been rapidly expanding An appreciation of the physics of quantum and dynamic electronic processes in confined structures is key to the understanding of many of the latest devices and their continued development Semiconductor Quantum Optoelectronics covers new physics and the latest device developments in low dimensional semiconductors It allows those who already have some familiarity with semiconductor physics and devices to broaden and expand their knowledge into new and expanding topics in low dimensional semiconductors. The book provides pedagogical coverage of selected areas of new and pertinent physics of low dimensional structures and presents some optoelectronic devices presently under development Coverage includes material and band structure issues and the physics of ultrafast nonlinear coherent intersubband and intracavity phenomena The book emphasizes various devices including quantum wells visible quantum cascade and mode locked lasers microcavity LEDs and VCSELs and detectors and logic elements An underlying theme is high speed phenomena and devices for increased system bandwidths **Optoelectronic Devices** Xun Li,2009-06-11 Get hands on experience of optoelectronic device design and simulation using numerical methods Physics and Simulation of Optoelectronic Devices II W. W. Chow, Marek Osiânski, Society of Photo-Optical Instrumentation Engineers, 1994 Handbook of Nitride Semiconductors and Devices, GaN-based Optical and **Electronic Devices** Hadis Morkoç, 2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 3 deals with nitride semiconductor devices and device technology Among the application areas that feature prominently here are LEDs lasers FETs and HBTs detectors and unique issues surrounding solar blind detection Optoelectronics Jasprit Singh, 1996 Aimed at graduate students in electrical engineering this text provides a broad understanding of the rapidly growing field of optoelectronics An integrated approach is used covering topics in applied optics physics of optical response and semiconductor optoelectronic devices

Whispering the Secrets of Language: An Emotional Quest through Physics Of Optoelectronic Devices

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