

Semiconductor Opto-Electronics

Ellis Brian

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Semiconductor Opto Electronics

Naci Balkan,Ayşe Erol



Semiconductor Opto Electronics:

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 engineering

Semiconductor Optoelectronics Jasprit Singh, 1995-01 Targeting one of the fastest growing areas of consumer electronics Semiconductor Optoelectronics covers both optoelectronics devices and applications focusing on the physics and technology of the hardware that is critical to the optoelectronic technology The text establishes a close link of lasers detectors modulators and switches to the global system demands and solved examples design related problems and physical insights along with mathematics are used throughout

Semiconductor Opto-Electronics T.S. Moss, G.J. Burrell, B. Ellis, 2013-10-22 Semiconductor Opto Electronics focuses on opto electronics covering the basic physical phenomena and device behavior that arise from the interaction between electromagnetic radiation and electrons in a solid The first nine chapters of this book are devoted to theoretical topics discussing the interaction of electromagnetic waves with solids dispersion theory and absorption processes magneto optical effects and non linear phenomena Theories of photo effects and photo detectors are treated in detail including the theories of radiation generation and the behavior of semiconductor lasers and lamps The rest of this text deals with the group IV elements III V compounds and selection of the most important chalcogenides This publication is intended primarily for physicists engaged in academic research or commercial device development and for honors students specializing in solid state physics

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

Semiconductor Optoelectronic Devices Pallab Bhattacharya, 1994 The first true introduction to semiconductor optoelectronic devices this book provides an accessible well organized overview of optoelectronic devices that emphasizes basic principles Coverage begins with an optional review of key concepts such as properties of compound semiconductor quantum mechanics semiconductor statistics carrier transport properties optical processes and junction theory then progress gradually through more advanced topics The Second Edition has been both updated and expanded to include the recent developments in the field

Semiconductor Optoelectronic Devices Joachim Piprek, 2013-10-22 Optoelectronics has become an 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 performance 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 Semiconductor Opto-Electronics [By] T. S. Moss, G. J. Burrell, and B. Ellis Trevor Simpson Moss,1973 **The**

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 discusses 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 related areas Semiconductor Opto-electronics Trevor Simpson Moss,Geoffrey John Burrell,Brian Ellis,1988

Semiconductors for Optoelectronics Naci Balkan,Ayşe Erol,2021-10-12 This book provides in depth knowledge about the fundamental physical properties of bulk and low dimensional semiconductors LDS It also explains their applications to optoelectronic devices The book incorporates two major themes The first theme starts from the fundamental principles governing the classification of solids according to their electronic properties and leads to a detailed analysis of electronic band structure and electronic transport in solids It then focuses on the electronic transport and optical properties of

semiconductor compounds size quantization and the analysis of abrupt p n junctions where a full analysis of the fundamental properties of intrinsic and doped semiconductors is given The second theme is device oriented It aims to provide the reader with understanding of the design fabrication and operation of optoelectronic devices based on novel semiconductor materials such as high speed photo detectors light emitting diodes multi mode and single mode lasers and high efficiency solar cells The book appeals to researchers and high level undergraduate students 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 **Organic Semiconductors for Optoelectronics** Hiroyoshi Naito,2021-07-30 Comprehensive coverage of organic electronics including fundamental theory basic properties characterization methods device physics and future trends Organic semiconductor materials have vast commercial potential for a wide range of applications from self emitting OLED displays and solid state lighting to plastic electronics and organic solar cells As research in organic optoelectronic devices continues to expand at an unprecedented rate organic semiconductors are being applied to flexible displays biosensors and other cost effective green devices in ways not possible with conventional inorganic semiconductors Organic Semiconductors for Optoelectronics is an up to date review of the both the fundamental theory and latest research and development advances in organic semiconductors Featuring contributions from an international team of experts this comprehensive volume covers basic properties of organic semiconductors characterization techniques device physics and future trends in organic device development Detailed chapters provide key information on the device physics of organic field effect transistors organic light emitting diodes organic solar cells organic photosensors and more This authoritative resource Provides a clear understanding of the optoelectronic properties of organic semiconductors and their influence to overall device performance Explains the theories behind relevant mechanisms in organic semiconducting materials and in organic devices Discusses current and future trends and challenges in the development of organic optoelectronic devices Reviews electronic properties device mechanisms and characterization techniques of organic semiconducting materials Covers theoretical concepts of optical properties of organic semiconductors including fluorescent phosphorescent and thermally assisted delayed fluorescent emitters An important new addition to the Wiley Series in Materials for Electronic Optoelectronic Applications Organic Semiconductors for Optoelectronics bridges the gap between advanced books and undergraduate textbooks on semiconductor physics and solid state physics It is essential reading for academic researchers graduate students and industry professionals involved in organic electronics materials science thin film devices and optoelectronics research and development **Mid-infrared Semiconductor Optoelectronics** Anthony Krier,2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging

applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science Semiconductor Optoelectronics Marian A. Herman, 1980 **Integrated Optoelectronics** Karl J. Ebeling, 2012-12-06 The English edition is based upon the second edition of the German version of the book The author would like to thank Mr A H Armstrong for providing the basic English manuscript of the text his critical reading and valuable comments Thanks are also due to Mrs A Demmer Mr J Matern Mrs B Titze and Mrs S Pfetsch for preparing the camera ready manuscript and the figures Springer Verlag has generously supported the project and cooperating with them has been a great pleasure Ulm April 1992 K J Ebeling Preface to the First German Edition This book is a comprehensive introduction to waveguide optics and photonics in semiconductor crystals Interest is centered on integrated optoelectronic devices for the transmission and processing of optical signals These optical communications engineering devices are becoming increasingly important for optical disk storage systems for optical chip chip interconnections and of course for optical fiber transmission and exchange **Semiconductor Quantum Optoelectronics** A. Miller, 2020-12-17 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 Materials for Optoelectronics Maurice Quillec, 1996-01-31 Optoelectronics ranks one of the highest increasing rates among the different industrial branches This activity is closely related to devices which are themselves extremely dependent on materials Indeed the history of optoelectronic devices has been following closely that of the materials KLUWER Academic Publishers has thus rightly identified Materials for Optoelectronics as a good opportunity for a book in the series entitled Electronic Materials Science and Technology Although a sound background in solid state physics is recommended the authors have confined their contribution to a graduate student level and tried to define any concept they use to render the book as a whole as self consistent as possible In the first section the basic aspects are developed Here three chapters consider semiconductor materials for optoelectronics under various aspects Prof G E Stillman begins with an introduction to the field from the point of view of the optoelectronic market Then he describes how III V materials especially the Multi Quantum Structures meet the requirements of optoelectronic functions including the support of microelectronics for optoelectronic integrated circuits In chapter 2 Prof *Advances In Semiconductor Lasers And Applications To Optoelectronics (Ijhses Vol. 9 No. 4)* Mitra Dutta, Michael A Strosio, 2000-06-21 Foreword by Charles H Townes This volume includes highlights of the theories underlying the essential phenomena occurring in novel semiconductor lasers as well as the principles of operation of selected heterostructure lasers To understand scattering processes in heterostructure lasers and related optoelectronic devices it is essential to consider the role of dimensional confinement of charge carriers as well as acoustical and optical phonons in quantum structures Indeed it is important to consider the confinement of both phonons and carriers in the design and modeling of novel semiconductor lasers such as the tunnel injection laser quantum well intersubband lasers and quantum dot lasers The full exploitation of dimensional confinement leads to the exciting new capability of scattering time engineering in novel semiconductor lasers As a result of continuing advances in techniques for growing quantum heterostructures recent developments are likely to be followed in coming years by many more advances in semiconductor lasers and optoelectronics As our understanding of these devices and the ability to fabricate them grow so does our need for more sophisticated theories and simulation methods bridging the gap between quantum and classical transport Semiconductor Quantum Optoelectronics A. Miller, D Finlayson, M Ebrahimzadeh, 1999-01-01 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

Group III-Nitride Semiconductor Optoelectronics C. Jayant Praharaj, 2023-10-24

Group III Nitride Semiconductor Optoelectronics Discover a comprehensive exploration of the foundations and frontiers of the optoelectronics technology of group III nitrides and their ternary alloys In Group III Nitride Semiconductor Optoelectronics expert engineer Dr C Jayant Praharaj delivers an insightful overview of the optoelectronic applications of group III nitride semiconductors The book covers all relevant aspects of optical emission and detection including the challenges of optoelectronic integration and a detailed comparison with other material systems The author discusses band structure and optical properties of III nitride semiconductors as well as the properties of their low dimensional structures He also describes different optoelectronic systems such as LEDs lasers photodetectors and optoelectronic integrated circuits Group III Nitride Semiconductor Optoelectronics covers both the fundamentals of the field and the most cutting edge discoveries Chapters provide thorough connections between theory and experimental advances for optoelectronics and photonics Readers will also benefit from A thorough introduction to the band structure and optical properties of group III nitride semiconductors Comprehensive explorations of growth and doping of group III nitride devices and heterostructures Practical discussions of the optical properties of low dimensional structures in group III nitrides In depth examinations of lasers and light emitting diodes other light emitting devices photodetectors photovoltaics and optoelectronic integrated circuits Concise treatments of the quantum optical properties of nitride semiconductor devices Perfect for researchers in electrical engineering applied physics and materials science Group III Nitride Semiconductor Optoelectronics is also a must read resource for graduate students and industry practitioners in those fields seeking a state of the art reference on the optoelectronics technology of group III nitrides

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