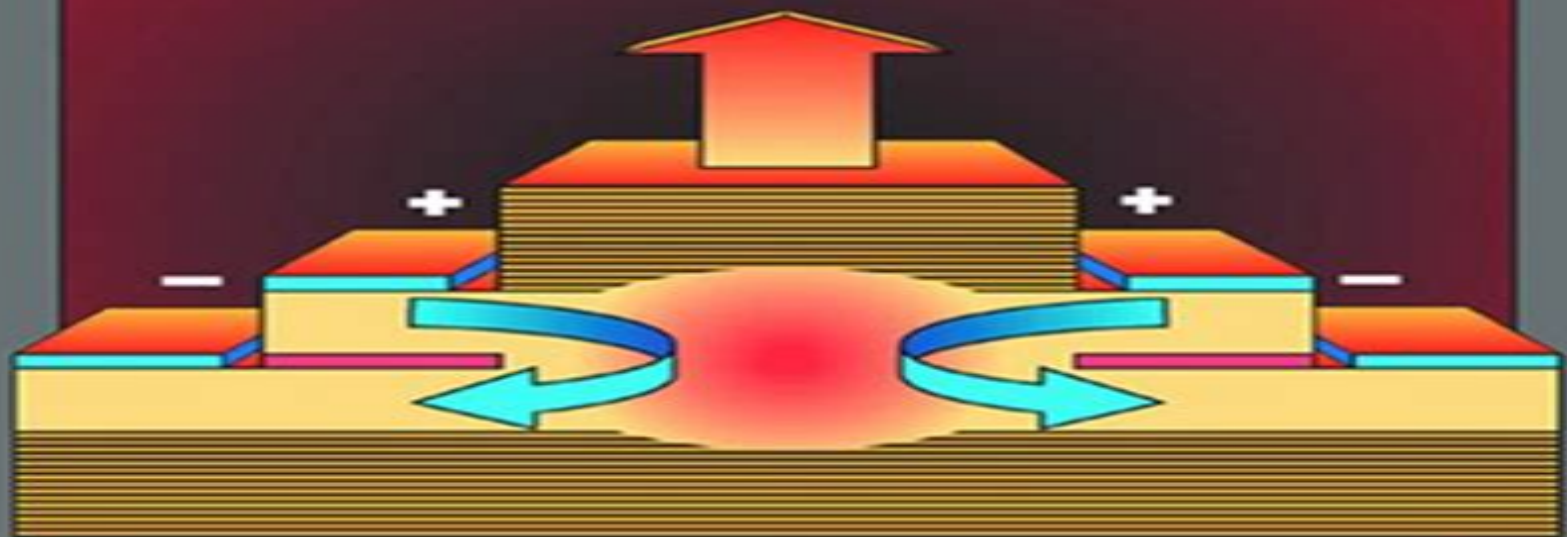


SEMICONDUCTOR OPTOELECTRONIC DEVICES

**Introduction to Physics
and Simulation**



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Gyu-Chul Yi



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Pallab Bhattacharya, 2003 *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

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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

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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

Optoelectronic Devices Niloy K. Dutta,Xiang Zhang,2013 This book is self contained and unified in presentation It covers both semiconductor and optical fiber based devices It can be used as an advanced text by graduate students and by practicing engineers It describes the latest development in fabrication technologies for semiconductor lasers photodetectors modulators nanostructures high power lasers short pulse generation and photonic crystal fibers It describes the latest development in applications of fiber amplifiers and fiber lasers in optical transmission industrial systems supercontinuum generation and fiber based sensors The book describes the current state of the art and in addition describes the fundamentals using Appendices The derivation of the fundamental equations along with problems for each chapter allows the book to be used as a textbook *Optical Semiconductor Devices* Mitsuo Fukuda,1998-12-24 This book is devoted to optical semiconductor devices and their numerous applications in telecommunications optoelectronics and consumer electronics areas where signal processing or the transmission of signals across fiber optic cables is paramount It introduces a new generation of devices that includes optical modulators quantum well QW lasers and photodiodes and explores new applications of more established devices such as semiconductor lasers light emitting diodes and photodiodes Mitsuo Fukuda examines the material properties operation principles fabrication packaging reliability and applications of each device and offers a unique industrial perspective discussing everything engineers and scientists need to know at different phases of research development and production This guide to the state of the art of optical semiconductor devices Helps you choose the right device for a given application Covers important performance data such as temperature and optical feedback noise in lasers Highlights epitaxial growth techniques and fabrication for each device Features one hundred figures and an extensive bibliography Provides a clear and concise treatment unencumbered by excessive theory Optical Semiconductor Devices is an essential resource for engineers and researchers in telecommunications and optoelectronics equipment designers and manufacturers and graduate students and scholars interested in this rapidly evolving field Semiconductor Optoelectronic Devices Yu Ye,Dattarya Jundale,2018-06 Optoelectronics is making an impact multiple times as the

semiconductor revolution made on the quality of our life In telecommunication entertainment devices computational techniques clean energy harvesting medical instrumentation materials and device characterization and scores of other areas of R D the science of optics and electronics get coupled by fine technology advances to make incredibly large strides Measurements of semiconductor photocurrent PC spectra have a long and rich history During the 1960s and 1970s the topic became one of the most studied phenomena in semiconductor research so that entire textbooks were dedicated to the subject In spite these considerable activities only a few theoretical efforts were published in order to fit PC spectra Over the recent years high power diode lasers have seen a tremendous evolution in material epitaxial growth technology epitaxial structure optimization technique cavity surface passivation technology etc Epitaxial structure is designed for a specific range of operation to optimize a combination of optical electrical and thermal performance generally minimizing both operating voltage and internal loss to achieve high efficiency with long cavities for high average power and high brightness applications Semiconductor Optoelectronic Devices covers recent achievements by specialists around the world Smart materials and devices are fast emerging and being tested and applications developed in an unimaginable pace and speed In this book an attempt is made to capture some of the materials and techniques and underlying physical and technical phenomena that make such developments possible The wide range of topics related to semiconductor optoelectronics and photonics presented in this book will be of useful to students and other stake holders in the field such as researchers and device designers

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

Optoelectronic Devices and Properties Oleg Sergiyenko, 2011-04-19 Optoelectronic devices impact many areas of society from simple household appliances and multimedia systems to communications computing spatial scanning optical monitoring 3D measurements and medical instruments This is the most complete book about optoelectromechanic systems and semiconductor optoelectronic devices it provides an accessible well organized overview of optoelectronic devices and properties that emphasizes basic principles

Semiconductor Nanostructures for Optoelectronic Devices Gyu-Chul Yi, 2012-01-13 This book presents the fabrication of optoelectronic nanodevices The structures considered are nanowires nanorods hybrid semiconductor nanostructures wide bandgap nanostructures for visible light emitters and graphene The device applications of these structures are broadly explained The book deals also with the characterization of semiconductor nanostructures It appeals to researchers and graduate students

Optoelectronic Devices Joachim Piprek, 2005 The subject of this book is optoelectronic devices which are semiconductors that employ the interaction of electrons and photons in order to transform electrical into optical signals

and vice versa Chapters provide an introduction to the physics and the main equations as well as the material parameters essential for realistic simulations *Semiconductor Devices for High-speed Optoelectronics* Giovanni Ghione, 2014-05-14 An all inclusive treatment of high speed electronic and optoelectronic devices emphasizing circuit applications and advanced device design solutions **Materials for Optoelectronic Devices, OEICs and Photonics** H. Schlötterer, M. Quillec, P.D. Greene, M. Bertolotti, 1991-10-08 The aim of the contributions in this volume is to give a current overview on the basic properties and applications of semiconductor and nonlinear optical materials for optoelectronics and integrated optics They provide a cross linkage between different materials III V II VI Si Ge glasses etc various sample dimensions from bulk crystals to quantum dots and a range of techniques for growth LPE to MOCVD and for processing from surface passivation to ion beams Major growth techniques and materials are discussed including the sophisticated technologies required to exploit the exciting properties of low dimensional semiconductors These proceedings will prove an invaluable guide to the current state of optoelectronic and nonlinear optical materials development as well as indicating trends and also future markets for optoelectronic devices *Amorphous and Microcrystalline Semiconductor Devices* Jerzy Kanicki, 1991 This volume presents an integrated survey of the most recent research engineering development and commercial application of amorphous and microcrystalline semiconductor optoelectronic devices The emphasis throughout the book is on understanding the physical fundamentals with a view towards designing and implementing practical optoelectronic devices *Semiconductor Nanostructures for Optoelectronic Applications* Todd D. Steiner, 2004 Annotation Tiny structures measurable on the nanometer scale one billionth of a meter are known as nanostructures and nanotechnology is the emerging application of these nanostructures into useful nanoscale devices As we enter the 21st century more and more professionals are using nanotechnology to create semiconductors for a variety of applications including communications information technology medical and transportation devices Written by today's best researchers of semiconductor nanostructures this cutting edge resource provides a snapshot of this exciting and fast changing field The book covers the latest advances in nanotechnology and discusses the applications of nanostructures to optoelectronics photonics and electronics *Handbook of Optoelectronic Device Modeling and Simulation* Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field **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 **Recent Development in Optoelectronic**

Devices Ruby Srivastava,2018-08-29 The book Recent Developments in Optoelectronic Devices is about the latest developments in optoelectronics This book is divided into three categories light emitting devices sensors and light harvesters This book also discusses the theoretical aspects of device design for iridium complexes as organic light emitting diodes OLEDs strategies for developing novel nanostructured materials silicon rich oxide SRO electroluminescent devices and multifunctional optoelectronic devices developed on resistive switching effects The worldwide participation of authors has contributed to the unifying effect of science Furthermore interested readers will also find information on the screen printed technology using semiconductor devices nonlinear phenomena in quantum devices experimental set up of optoelectronics flexible logic gate to realize logic operations autonomous vehicles and the latest developments in perovskites as solar cells

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