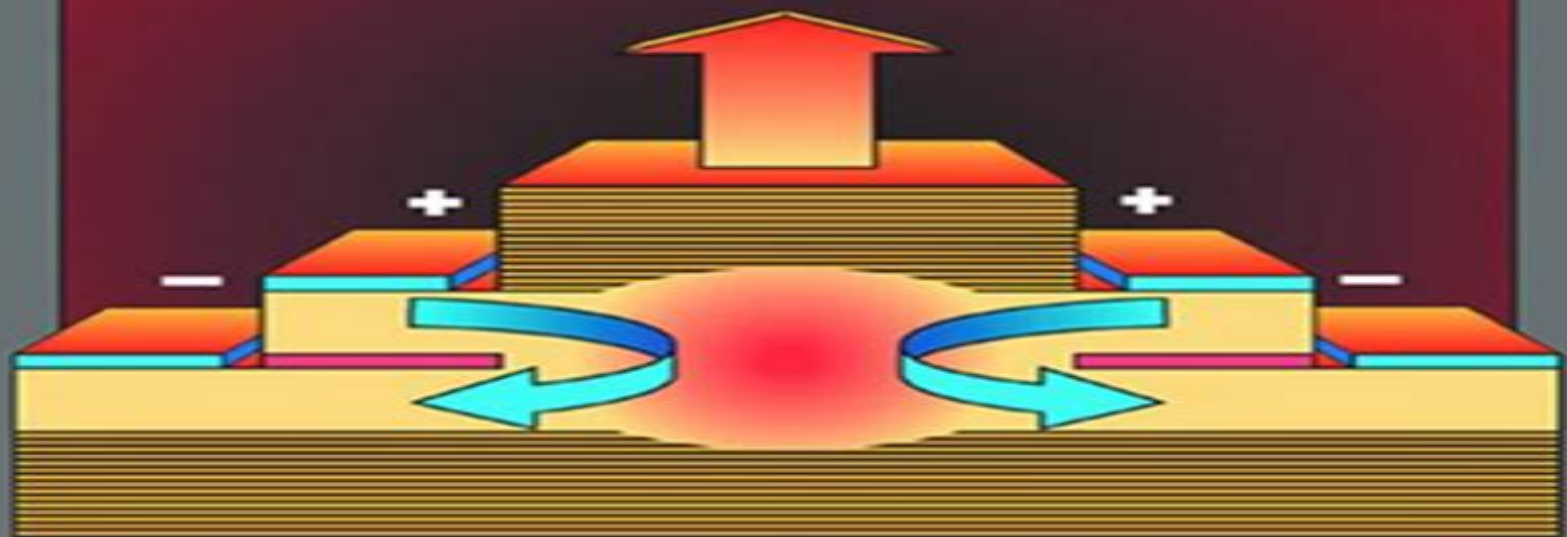


SEMICONDUCTOR OPTOELECTRONIC DEVICES

**Introduction to Physics
and Simulation**



JOACHIM PIPREK



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Semiconductor Optoelectronic Devices

Marian A. Herman



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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

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 Devices for High-speed Optoelectronics Giovanni Ghione,2009 Providing an all inclusive treatment of electronic and optoelectronic devices used in high speed optical communication systems this book emphasizes circuit applications advanced device design solutions and noise in sources and receivers Core topics covered include semiconductors and semiconductor optical properties high speed circuits and transistors detectors sources and modulators It discusses in detail both active devices heterostructure field effect and bipolar transistors and passive components lumped and distributed for high speed electronic integrated circuits It also describes recent advances in high speed devices for 40 Gbps systems Introductory elements are provided making the book open to readers without a specific background in optoelectronics whilst end of chapter review questions and numerical problems enable readers to test their understanding and experiment with realistic data *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** 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 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

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 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 **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 professional 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 **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 Optoelectronics* Marian A. Herman, 1980 **Semiconductor Optoelectronic Devices for Lightwave Communication** Joachim Piprek, 2003

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