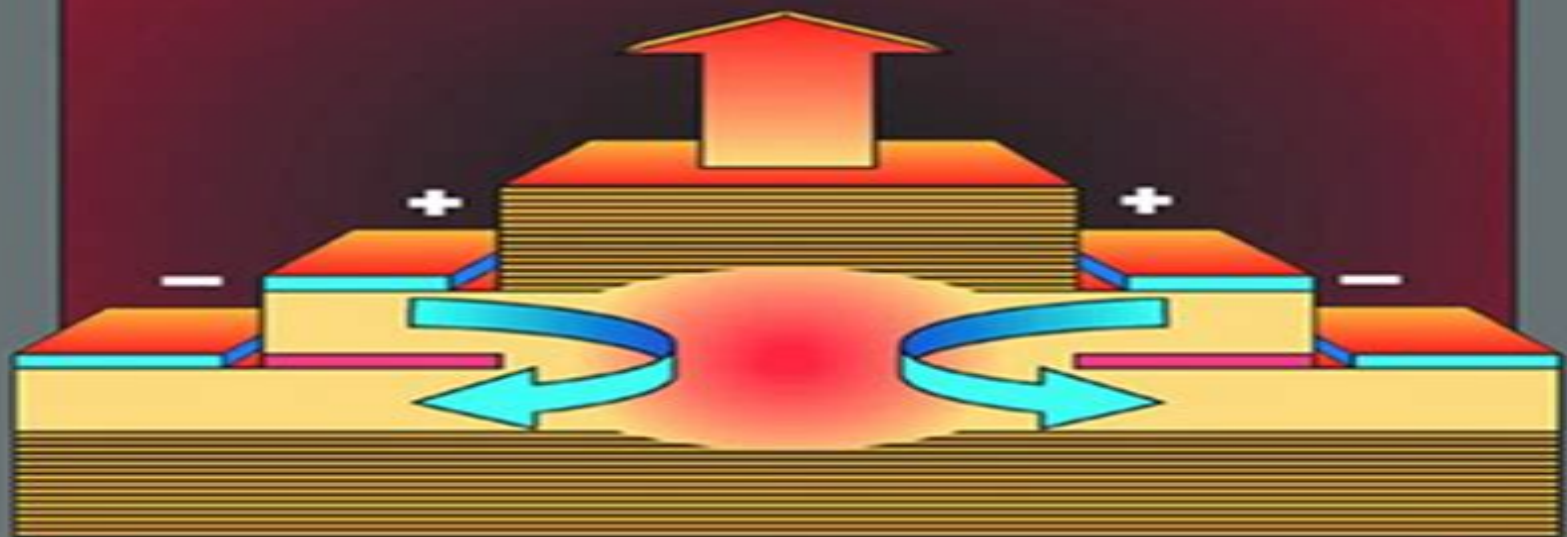


SEMICONDUCTOR OPTOELECTRONIC DEVICES

**Introduction to Physics
and Simulation**



JOACHIM PIPREK



ACADEMIC
PRESS

Semiconductor Optoelectronic Devices

David Wood



Semiconductor Optoelectronic Devices:

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 Optoelectronic Devices 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 **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

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

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 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 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 of 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

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

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

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

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 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 themain equations as well as the material parameters essential for realistic simulations 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 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 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 **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 MOMBE 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 Semiconductor Optoelectronic Devices for Lightwave Communication Joachim Piprek,2003

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

Simulation of Semiconductor Optoelectronic Devices Institution of Electrical Engineers, Joachim Piprek, 2002

This book delves into Semiconductor Optoelectronic Devices. Semiconductor Optoelectronic Devices is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Semiconductor Optoelectronic Devices, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Semiconductor Optoelectronic Devices
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 - Chapter 4: Semiconductor Optoelectronic Devices in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, this book will examine the practical applications of Semiconductor Optoelectronic Devices in daily life. The third chapter will showcase real-world examples of how Semiconductor Optoelectronic Devices can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Semiconductor Optoelectronic Devices in specific contexts. This chapter will explore how Semiconductor Optoelectronic Devices is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Semiconductor Optoelectronic Devices. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Semiconductor Optoelectronic Devices.

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