

SEMICONDUCTORS AND SEMIMETALS

VOLUME 22

Lightwave Communications Technology

Volume Editor: M. T. Tsang



Part C
Bandwidth-enhanced Injection Lasers, II
Light-Emitting Diodes

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M. Jamal Deen, Prasanta Kumar Basu



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Semiconductor Physical Electronics Sheng S. Li, 2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamental solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate students in electrical engineering However many students from other disciplines and backgrounds such as chemical engineering materials science and physics have also taken this course sequence and will be interested in the material presented herein This book may also serve as a general reference for device engineers in the semiconductor industry The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices The main subjects covered include crystal structures lattice dynamics semiconductor statistics energy band theory excess carrier phenomena and recombination mechanisms carrier transport and scattering mechanisms optical properties photoelectric effects metal semiconductor devices the p n junction diode bipolar junction transistor MOS devices photonic devices quantum effect devices and high speed III V semiconductor devices The text presents a unified and balanced treatment of the physics of semiconductor materials and devices It is intended to provide physicists and materials scientists with more device backgrounds and device engineers with a broader knowledge of fundamental solid state physics [Encyclopedia of Optical Engineering: Las-Pho, pages 1025-2048](#) Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field **Silicon Photonics** M. Jamal Deen, Prasanta Kumar Basu, 2012-04-30 The creation of affordable high speed optical communications using standard semiconductor manufacturing technology is a principal aim of silicon photonics research This would involve replacing copper connections with optical fibres or waveguides and electrons with photons With applications such as telecommunications and information processing light detection spectroscopy holography and robotics silicon photonics has the potential to revolutionise electronic only systems Providing an overview of the physics technology and device operation of photonic devices using exclusively silicon and related alloys the book includes Basic Properties of Silicon Quantum Wells Wires Dots and Superlattices Absorption Processes in Semiconductors Light Emitters in Silicon Photodetectors Photodiodes and Phototransistors Raman Lasers including Raman Scattering Guided Lightwaves Planar Waveguide Devices Fabrication Techniques and Material Systems Silicon Photonics Fundamentals and Devices outlines the

basic principles of operation of devices the structures of the devices and offers an insight into state of the art and future developments **Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set** Craig Hoffman, Ronald Driggers, 2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia s length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition s release corresponds nicely with the United Nations General Assembly s declaration of 2015 as the International Year of Light working in tandem to raise awareness about light s important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Detection and Signal Processing Wilhelmus Jacobus Witteman, 2006-03-20 This comprehensive monograph deals with detectors signal processors and related noise phenomena Detailed quantitative analyses are developed in a consistent format for thermal detectors vacuum detectors semiconductor detectors and avalanche detectors as well as their accompanying noise currents For signal processing applications the monograph treats in detail the operational amplifier signal averagers waveform analyzers correlation techniques and heterodyne detection Several original extensions are reported especially for correlation devices and heterodyne detection with noise rejection In addition results of analyses are illustrated with examples of operating systems and of applications in space communication and laser radar [Infrared and Terahertz Detectors, Third Edition](#) Antoni Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques It contains a complete overhaul of the contents including several new chapters and a new section on terahertz detectors and systems It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding The other dedicated sections focus on thermal detectors photon detectors and focal plane arrays **Integration and Packaging of**

Optoelectronic Devices Davis H. Hartman, Robert L. Holman, Doyle P. Skinner, 1987 *Semiconductors and Semimetals: Device applications* Jacques I. Pankove, 1984 **Semiconductors and Semimetals** Jacques I. Pankove, 1984-10-11

Semiconductors and Semimetals [Semiconductors and Semimetals, Part 2](#), 2024-12-05 This two part book Volume on Semiconductor Metamaterials will survey the state of the art in material platforms for optical metasurfaces Part 1 will focus on materials for active metasurfaces including tuning and sensing applications and will include chapters on Phase Change

Materials Phase Transition Materials and Soft Matter materials as well as metasurface materials for polarization sensing catalysis and chemical reactions Part 2 will focus on static metasurfaces for light generation and detection Materials employed for light emitting metasurfaces metasurfaces operating in the ultraviolet visible and infrared regions and metasurfaces from c2 materials will all be discussed Emphasis on semiconductor materials platforms used for optical metasurfaces Considers both static and dynamic metasurfaces Covers the entire EM spectrum from UV to visible and IR light

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Albert C. Beer,Robert K. Willardson,1971 **Semiconductors and Semimetals** ,1966 *Silicon-Germanium Strained Layers and Heterostructures* M. Willander,Suresh C. Jain,2003-10-20 The study of Silicone Germanium strained layers has broad implications for material scientists and engineers in particular those working on the design and modelling of semiconductor devices Since the publication of the original volume in 1994 there has been a steady flow of new ideas new understanding new Silicon Germanium SiGe structures and new devices with enhanced performance Written for both students and senior researchers the 2nd edition of Silicon Germanium Strained Layers and Heterostructures provides an essential up date of this important topic describing in particular the recent developments in technology and modelling Fully revised and updated 2nd edition incorporating important recent breakthroughs and a complete literature review The extensive bibliography of over 400 papers provides a comprehensive and coherent overview of the subject Appropriate for students and senior researchers *Semiconductors and Semimetals* Robert K. Willardson,Albert C. Beer,1968

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