

SEMICONDUCTORS AND SEMIMETALS

VOLUME 22

Lightwave Communications Technology

Volume Editor: M. T. Tsang



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

Semiconductors Semimetals Vol22b Injec

Albert C. Beer, Robert K. Willardson



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Polarization Self-modulation in Semiconductor Lasers Wei-Hung Loh, 1991 **Physics and Technology of Heterojunction Devices** Institution of Electrical Engineers, 1991 This book brings together developments in both the physics and engineering of semiconductor devices Much attention is paid to so called band gap engineering which is enabling new and higher performance devices to be researched and introduced *Analysis and Design of Vertical Cavity Surface Emitting Lasers* S. F. Yu, 2003-09-04 A practical hands on guidebook for the efficient modeling of VCSELs Vertical Cavity Surface Emitting Lasers VCSELs are a unique type of semiconductor laser whose optical output is vertically emitted from the surface as opposed to conventional edge emitting semiconductor lasers Complex in design and expensive to produce VCSELs nevertheless represent an already widely used laser technology that promises to have even more significant applications in the future Although the research has accelerated there have been relatively few books written on this important topic *Analysis and Design of Vertical Cavity Surface Emitting Lasers* seeks to encapsulate this growing body of knowledge into a single comprehensive reference that will be of equal value for both professionals and academics in the field The author a recognized expert in the field of VCSELs attempts to clarify often conflicting assumptions in order to help readers achieve the simplest and most efficient VCSEL models for any given problem Highlights of the text include A clear and comprehensive theoretical treatment of VCSELs Detailed derivations for understanding the operational principles of VCSELs Mathematical models for the investigation of electrical optical and thermal properties of VCSELs Case studies on the mathematical modeling of VCSELs and the implementation of simulation programs *Granular Nanoelectronics* David K. Ferry, John R. Barker, Carlo Jacoboni, 2013-12-14 The technological means now exists for approaching the fundamental limiting scales of solid state electronics in which a single carrier can in principle represent a single bit in an information flow In this light the prospect of chemically or biologically engineered molecular scale structures which might support information processing functions has enticed workers for many years The one common factor in all suggested molecular switches ranging from the experimentally feasible proton tunneling structure to natural systems such as the micro tubule is that each proposed structure deals with individual information carrying entities Whereas this future molecular electronics faces enormous technical challenges the same limit is already appearing in existing semiconducting quantum wires and small tunneling structures both superconducting and normal meta devices in which the motion of a single eh arge through the tunneling barrier can produce a sufficient voltage change to cut off further tunneling current We may compare the above situation with today s Si microelectronics where each bit is encoded as a very arge number not necessarily fixed of electrons within a charge pulse The associated reservoirs and sinks of charge carriers may be profitably tapped and manipulated to provide macro currents which can be readily amplified or curtailed On the other band modern semiconductor ULSI has progressed by adopting a linear scaling principle to the down sizing of individual semiconductor 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 Modern Semiconductor Device Physics S. M. Sze, 1998 An in depth up to date presentation of the physics and operational principles of all modern semiconductor devices The companion volume to Dr Sze's classic Physics of Semiconductor Devices Modern Semiconductor Device Physics covers all the significant advances in the field over the past decade To provide the most authoritative state of the art information on this rapidly developing technology Dr Sze has gathered the contributions of world renowned experts in each area Principal topics include bipolar transistors compound semiconductor field effect transistors MOSFET and related devices power devices quantum effect and hot electron devices active microwave diodes high speed photonic devices and solar cells Supported by hundreds of illustrations and references and a problem set at the end of each chapter Modern Semiconductor Device Physics is the essential text reference for electrical engineers physicists material scientists and graduate students actively working in microelectronics and related fields **Introduction to Lightwave Communication Systems** Rajappa Papannareddy, 1997 The promise of the on line communications revolution is widely acknowledged but not yet fulfilled Broader access to optical fiber systems holds the key to future success and their superior transmission capabilities will provide the true gateway to the information superhighway Introduction to Lightwave Communication Systems covers the cutting edge of this critically important technology and provides an excellent technical grounding in the field *Novel Quantum-wells GaAs-based Lasers for All Transmission Windows in Optical Communication* Nelson Tansu, 2003

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Semiconductor injection lasers, II. Light-emitting diodes; Part D: Photodetectors; Part E. Integrated optoelectronics Robert K. Willardson, Albert C. Beer, 1966 **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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