

Semiconductor Opto-Electronics

Ellis Brian

Note: This is not the actual book cover

Semiconductor Opto Electronics

Jasprit Singh



Semiconductor Opto Electronics:

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 1980s 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 modern 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 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. *Semiconductor Opto-Electronics* T.S. Moss, G.J. Burrell, B. Ellis, 2013-10-22 Semiconductor Opto Electronics focuses on optoelectronics, covering the basic physical phenomena and device behavior that arise from the interaction between electromagnetic radiation and electrons in a solid. The first nine

chapters of this book are devoted to theoretical topics discussing the interaction of electromagnetic waves with solids dispersion theory and absorption processes magneto optical effects and non linear phenomena Theories of photo effects and photo detectors are treated in detail including the theories of radiation generation and the behavior of semiconductor lasers and lamps The rest of this text deals with the group IV elements III V compounds and selection of the most important chalcogenides This publication is intended primarily for physicists engaged in academic research or commercial device development and for honors students specializing in solid state physics 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,2009-10-01 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 Mid-infrared Semiconductor Optoelectronics Anthony Krier,2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science *Semiconductor Opto-electronics* Trevor Simpson Moss,Geoffrey John Burrell,Brian Ellis,1988 *Physics of Optoelectronic Devices* Shun Lien Chuang,1995-09-08 Emphasizes the theory of semiconductor optoelectronic devices demonstrating comparisons between theoretical and experimental results Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum well semiconductors Details semiconductor lasers including double heterostructure stripe geometry gain

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