

Semiconductor Quantum Wells and Superlattices for Long-Wavelength Infrared Detectors

M. O. Minashev, Editor

Semiconductor Quantum Wells And Superlattices For Longwavelength Infrared Detectors

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Semiconductor Quantum Wells and Superlattices for Long-wavelength Infrared Detectors Mahmoud Omar

Manasreh,1993 Provides a basic understanding of how semiconductor quantum wells and superlattices can be used for long wavelength infrared detectors and related systems It represents a step towards a knowledge of novel structures that could be used for high performance infrared detectors and imaging rays **Long Wavelength Infrared Detectors**

Razeghi,1997-11-21 This work presents a comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures Featuring contributions from researchers working at the cutting edge of this field this volume will become an essential reference for advanced graduate students and researchers alike *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 Long Wavelength Infrared Detectors Manijeh Razeghi,2020-03-09 This timely work presents a

comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures The growth of quantum wells and superlattices is well documents in this volume as are the principal new superlattice technologies for long wavelength infrared detection Featuring insightful contributions from researchers working at the cutting edge of this exciting field this volume is sure to become an essential reference for advanced graduate students and researchers alike **Infrared Detectors** Antonio Rogalski,2010-11-15 Completely revised and reorganized while

retaining the approachable style of the first edition Infrared Detectors Second Edition addresses the latest developments in the science and technology of infrared IR detection Antoni Rogalski an internationally recognized pioneer in the field covers the comprehensive range of subjects necessary to un *Intersubband Transitions in Quantum Wells: Physics and Devices*

Sheng S. Li,Yan-Kuin Su,2013-11-27 The International Workshop on Intersubband Transitions in Quantum Wells Physics and Applications was held at National Cheng Kung University in Tainan Taiwan December 15 18 1997 The objective of the Workshop is to facilitate the presentation and discussion of the recent results in theoretical experimental and applied aspects of intersubband transitions in quantum wells and dots The program followed the tradition initiated at the 1991 conference in Cargese France the 1993 conference in Whistler B C Canada and the 1995 conference in Kibbutz Ginosar Israel Intersubband transitions in quantum wells and quantum dots have attracted considerable attention in recent years mainly due to the promise of various applications in the mid and far infrared regions 2 30 J lm Over 40 invited and contributed papers were presented in this four day workshop with topics covered most aspects of the intersubband transition phenomena including

the basic intersubband transition processes multiquantum well infrared photodetector QWIP physics large format 640x480 GaAs QWIP with 90 J lffi cutoff focal plane arrays FPAs for IR imaging camera applications infrared modulation intersubband emission including mid and long wavelength quantum cascade QC lasers such as short A 3.4 J lm and long A 11.5 J lm wavelength room temperature QC lasers quantum fountain intersubband laser at 15.5 J lm wavelength in GaAs AlGaAs quantum well harmonic generation and nonlinear effects ultra fast phenomena such as terahertz THz intersubband emission and detection The book divides into five Chapters

New Ternary Alloy Systems for Infrared Detectors Antoni Rogalski, 1994

Theory of Optical Processes in Semiconductors Prasanta Kumar Basu, P. K. Basu, 2003

Semiconductor optoelectronic devices are at the heart of all information generation and processing systems and are likely to be essential components of future optical computers With more emphasis on optoelectronics and photonics in graduate programmes in physics and engineering there is a need for a text providing a basic understanding of the important physical phenomena involved Such a training is necessary for the design optimization and search for new materials devices and application areas This book provides a simple quantum mechanical theory of important optical processes i.e. band to band intersubband and excitonic absorption and recombination in bulk quantum wells wires dots superlattices and strained layers including electro optic effects The classical theory of absorption quantization of radiation and band picture based on k.p perturbation has been included to provide the necessary background Prerequisites for the book are a knowledge of quantum mechanics and solid state theory Problems have been set at the end of each chapter some of which may guide the reader to study processes not covered in the book The application areas of the phenomena are also indicated

Semiconductor Quantum Well Intermixing J. T. Lie, 2000-01-18

Semiconductor Quantum Well Intermixing is an international collection of research results dealing with several aspects of the diffused quantum well DFQW ranging from Physics to materials and device applications The material covered is the basic interdiffusion mechanisms of both cation and anion groups as well as the properties of band structure modifications Its comprehensive coverage of growth and post growth processing technologies along with its presentation of the various interesting and advanced features of the DFQW materials make this book an essential reference to the study of QW layer intermixing

Photonic Devices and Systems Robert G. Hunsperger, 2017-10-19

This work describes all the major devices used in photonic systems It provides a thorough overview of the field of photonics detailing practical examples of photonic technology in a wide range of applications Photonic systems and devices are discussed with a mathematical rigor that is precise enough for design purposes yet highly readable

Handbook of Luminescent Semiconductor Materials Leah Bergman, Jeanne L. McHale, 2016-04-19

Photoluminescence spectroscopy is an important approach for examining the optical interactions in semiconductors and optical devices with the goal of gaining insight into material properties With contributions from researchers at the forefront of this field Handbook of Luminescent Semiconductor Materials explores the use of this technique to study

Intersubband Infrared Photodetectors V.

Ryzhii, 2003 Infrared technologies are very important for a wide range of military scientific and commercial applications. Devices and systems based on semiconductor heterostructure and quantum well and quantum dot structures open up a new era in infrared technologies. This book deals with various topics related to the latest achievements in the development of intersubband infrared photodetectors reviewed by top experts in the field. It covers physical aspects of the operation of the devices as well as details of their design in different applications. The papers included in the book will be useful for researchers and engineers interested in the physics of optoelectronic devices as well as their practical design and applications.

Fabrication, Properties and Applications of Low-Dimensional Semiconductors M. Balkanski, Ivan Yanchev, 2012-12-06 A recent major development in high technology and one which bears considerable industrial potential is the advent of low dimensional semiconductor quantum structures. The research and development activity in this field is moving fast and it is thus important to afford scientists and engineers the opportunity to get updated by the best experts in the field. The present book draws together the latest developments in the fabrication technology of quantum structures as well as a competent and extensive review of their fundamental properties and some remarkable applications. The book is based on a set of lectures that introduce different aspects of the basic knowledge available; it has a tutorial content and could be used as a textbook. Each aspect is reviewed from elementary concepts up to the latest developments.

Audience: Undergraduates and graduates in electrical engineering and physics schools. Also for active scientists and engineers updating their knowledge and understanding of the frontiers of the technology.

Narrow-gap Semiconductor Photodiodes Antoni Rogalski, Krzysztof Adamiec, Jaroslaw Rutkowski, 2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent progress in different IR photodiode technologies is discussed. HgCdTe photodiodes, InSb photodiodes, alternatives to HgCdTe, III-V and II-VI ternary alloy photodiodes, lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids. Investigations of the performance of photodiodes operated in different spectral regions are presented.

Physics of Photonic Devices Shun Lien Chuang, 2009-01-20 The most up to date book available on the physics of photonic devices. This new edition of *Physics of Photonic Devices* incorporates significant advancements in the field of photonics that have occurred since publication of the first edition. *Physics of Optoelectronic Devices*. New topics covered include a brief history of the invention of semiconductor lasers, the Lorentz dipole method and metal plasmas, matrix optics, surface plasma waveguides, optical ring resonators, integrated electroabsorption modulator lasers and solar cells. It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators, the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers, quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers. *Physics of Photonic Devices* Second Edition presents novel information that is not yet available in book form elsewhere. Many problem sets have been updated; the answers to which are available in

an all new Solutions Manual for instructors Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field Device and Circuit Cryogenic Operation for Low Temperature Electronics Francis Balestra,G. Ghibaudo,2013-11-11 Device and Circuit Cryogenic Operation for Low Temperature Electronics is a first in reviewing the performance and physical mechanisms of advanced devices and circuits at cryogenic temperatures that can be used for many applications The first two chapters cover bulk silicon and SOI MOSFETs The electronic transport in the inversion layer the influence of impurity freeze out the special electrical properties of SOI structures the device reliability and the interest of a low temperature operation for the ultimate integration of silicon down to nanometer dimensions are described The next two chapters deal with Silicon Germanium and III V Heterojunction Bipolar Transistors as well as III V High Electron Mobility Transistors HEMT The basic physics of the SiGe HBT and its unique cryogenic capabilities the optimization of such bipolar devices and the performance of SiGe HBT BiCMOS technology at liquid nitrogen temperature are examined The physical effects in III V semiconductors at low temperature the HEMT and HBT static high frequency and noise properties and the comparison of various cooled III V devices are also addressed The next chapter treats quantum effect devices made of silicon materials The major quantum effects at low temperature quantum wires quantum dots as well as single electron devices and applications are investigated The last chapter overviews the performances of cryogenic circuits and their applications The low temperature properties and performance of inverters multipliers adders operational amplifiers memories microprocessors imaging devices circuits and systems sensors and read out circuits are analyzed Device and Circuit Cryogenic Operation for Low Temperature Electronics is useful for researchers engineers Ph D and M S students working in the field of advanced electron devices and circuits new semiconductor materials and low temperature electronics and physics

Frontiers of Thin Film Technology ,2000-11-07 Frontiers of Thin Film Technology Volume 28 focuses on recent developments in those technologies that are critical to the successful growth fabrication and characterization of newly emerging solid state thin film device architectures Volume 28 is a condensed sampler of the Handbook for use by professional scientists engineers and students involved in the materials design fabrication diagnostics and measurement aspects of these important new devices **Proceedings of the Symposium on Light Emitting Devices for**

Optoelectronic Applications and the Twenty-Eighth State-of-the-Art Program on Compound Semiconductors Electrochemical Society. Luminescence and Display Materials Division,Electrochemical Society. Meeting,1998 *III-V Nitride Semiconductors* Edward T. Yu,2022-10-30 The concepts in this book will provide a comprehensive overview of the current state for a broad range of nitride semiconductor devices as well as a detailed introduction to selected materials and processing issues of general relevance for these applications This compilation is very timely given the level of interest and the current stage of research in nitride semiconductor materials and device applications This volume consists of chapters

written by a number of leading researchers in nitride materials and device technology addressing Ohmic and Schottky contacts AlGaInN multiple quantum well laser diodes nitride vertical cavity emitting lasers and ultraviolet photodetectors This unique volume provides a comprehensive review and introduction to application and devices based on GaN and related compounds for newcomers to the field and stimulus to further advances for experienced researchers II-VI Semiconductor Materials and their Applications MariaC. Tamargo, 2018-05-04 II VI Semiconductor Materials and Their Applications deals with II VI compound semiconductors and the status of the two areas of current optoelectronics applications blue green emitters and IR detectors Specifically the growth characterization materials and device issues for these two applications are described Emphasis is placed on the wide bandgap emitters where much progress has occurred recently The book also presents new directions that have potential future applications in optoelectronics for II VI materials In particular it discusses the status of dilute magnetic semiconductors for magneto optical and electromagnetic devices nonlinear optical properties photorefractive effects and new materials and physics phenomena such as self organized low dimensional structures II_VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses

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