

Semiconductor Quantum Wells and Superlattices for Long-Wavelength Infrared Detectors

M. O. Minashev, Editor

Semiconductor Quantum Wells And Superlattices For Longwavelength Infrared Detectors

Lauren Gardner



Semiconductor Quantum Wells And Superlattices For Longwavelength Infrared Detectors:

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 Long Wavelength Infrared Emitters Based on Quantum Wells and Superlattices Manfred Helm,2000-10-31 This book offers a thorough survey of long wavelength infrared semiconductor emitters based primarily on quantum wells and superlattices Featuring contributions from the most prominent researchers in the field this volume allows readers to compare different types of lasers as well as examine investigations of potential far infrared terrahertz sources This is an essential reference for researchers engineers and graduate students who wish to obtain comprehensive knowledge about infrared semiconductor sources and recent developments in this field 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 9 0 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

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 *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 **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 **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 **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

GaN and Related Materials Stephen J. Pearton, 2021-10-08 Presents views on current developments in heat and mass transfer research related to the modern development of heat exchangers Devotes

special attention to the different modes of heat and mass transfer mechanisms in relation to the new development of heat exchangers design Dedicates particular attention to the future needs and demands for further development in heat and mass transfer GaN and related materials are attracting tremendous interest for their applications to high density optical data storage blue green diode lasers and LEDs high temperature electronics for high power microwave applications electronics for aerospace and automobiles and stable passivation films for semiconductors In addition there is great scientific interest in the nitrides because they appear to form the first semiconductor system in which extended defects do not severely affect the optical properties of devices This series provides a forum for the latest research in this rapidly changing field offering readers a basic understanding of new developments in recent research Series volumes feature a balance between original theoretical and experimental research in basic physics device physics novel materials and quantum structures processing and systems

Antimonide-Related Strained-Layer Heterostructures M. O. Manasreh, 2019-08-16 Interest in antimonide related heterostructures is burgeoning due to their applications as light sources diode lasers modulators filters switches nonlinear optics and field effect transistors This volume featuring contributions from leading researchers in the field is the first book to focus on antimonide related topics It offers to both the beginning student and the advanced researcher a comprehensive review of the state of the art in this exciting new area of research

Unveiling the Magic of Words: A Overview of "**Semiconductor Quantum Wells And Superlattices For Longwavelength Infrared Detectors**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Semiconductor Quantum Wells And Superlattices For Longwavelength Infrared Detectors**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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