

SEMICONDUCTORS AND SEMIMETALS

Volume 17, Part 1A

Advances in Infrared Photodetectors

Edited by

Suresh D. Choudhary, David R. Hager
and Chinnappa Jayachand

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Semiconductors And Semimetals Volume 5 Infrared Detectors

Antonio Rogalski



Semiconductors And Semimetals Volume 5 Infrared Detectors:

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

Semiconductors and Semimetals ,1971-11-12 Semiconductors and Semimetals **The Story of Semiconductors** John W. Orton,2008-12-11 The book provides an overview of the fascinating spectrum of semiconductor physics devices and applications presented from a historical perspective It covers the development of the subject from its inception in the early nineteenth century to the recent millennium Written in a lively informal style it emphasizes the interaction between pure scientific push and commercial pull on the one hand and between basic physics materials and devices on the other It also sets the various device developments in the context of systems requirements and explains how such developments met wide ranging consumer demands It is written so as to appeal to students at all levels in physics electrical engineering and materials science to teachers lecturers and professionals working in the field as well as to a non specialist scientific readership

Physics of Photonic Devices Shun Lien Chuang,2012-11-07 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

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

Thin Film Device Applications Kasturi Chopra,2012-12-06 Two dimensional materials

created ab initio by the process of condensation of atoms molecules or ions called thin films have unique properties significantly different from the corresponding bulk materials as a result of their physical dimensions geometry nonequilibrium microstructure and metallurgy Further these characteristic features of thin films can be drastically modified and tailored to obtain the desired and required physical characteristics These features form the basis of development of a host of extraordinary active and passive thin film device applications in the last two decades On the one extreme these applications are in the submicron dimensions in such areas as very large scale integration VLSI Josephson junction quantum interference devices magnetic bubbles and integrated optics On the other extreme large area thin films are being used as selective coatings for solar thermal conversion solar cells for photovoltaic conversion and protection and passivating layers Indeed one would be hard pressed to find many sophisticated modern optical and electronic devices which do not use thin films in one way or the other With the impetus provided by industrial applications the science and technology of thin films have undergone revolutionary development and even today continue to be recognized globally as frontier areas of R&D work Major technical developments in any field of science and technology are invariably accompanied by an explosion of published literature in the form of scientific publications reviews and books

Photodetectors P.N.J. Dennis, 2012-12-06 This book has been written as part of a new series of scientific text books being published by Plenum Publishing Company Limited The scope of the series is to review a chosen topic in each volume and in addition to present abstracts of the most important references cited in the text Thus allowing the reader to supplement the information contained within this book without have to refer to many additional publications This volume is devoted to the subject of Radiation Detectors known as Photodetectors and particular emphasis has been placed on devices operating in the infrared region of the electromagnetic spectrum Although some detectors which are sensitive at ultraviolet and visible wavelengths are also described The existence of the infrared region of the spectrum has been known for almost two hundred years but the development of detectors specifically for these wavelengths was limited for a long time due to technology limitations and difficulties in understanding and explaining the phenomena involved Significant advances were made during World War II when the potential military applications of being able to see in the dark were demonstrated and this progress has been maintained during the last forty years when many major advances have been achieved such that the use of photodetectors for both civil and military applications is now relatively common and can be inexpensive

Absolute Radiometry F Hengstberger, 2012-12-02 Absolute Radiometry Electrically Calibrated Thermal Detectors of Optical Radiation considers the application of absolute radiometry a technique employed in optical radiation metrology for the absolute measurement of radiant power This book is composed of eight chapters and begins with the principles of the absolute measurement of radiant power The subsequent chapters provide the criteria associated with reflectance and transmittance of optical radiation and the parameters used to characterize the performance of radiation detectors A chapter presents an analysis of the

temperature distribution in a detector element This topic is followed by discussions of the environmental and instrumental corrections in absolute radiometry The final chapters deal with the alternative optical power scales and direct current substitution methods used in other fields of metrology Radiometry Frank Grum,2012-12-02 Optical Radiation

Measurements Volume 1 Radiometry is an introduction to the measurement of optical radiant energy with emphasis on the principles and generally applicable methods of radiometry Topics range from basic concepts of radiant energy and its transfer to the calibration of instrumentation Blackbody radiation and sources of radiation are also discussed along with detectors and spectral analyzers Comprised of 10 chapters this volume begins with an overview of the basic concepts and characteristics of radiometry as well as its applications such as photometry photography television and vision research The next chapters describe basic concepts such as radiation laws terminology and the transfer of radiant energy The emphasis in these early chapters is on fundamentals The major components of radiometric systems are then considered The final three chapters focus on representative techniques with particular reference to measurements of radiant power and radiant energy reflectance transmittance and absorptance and standards and calibration This book is written for students practitioners and researchers in physics **Measurement, Instrumentation, and Sensors Handbook** John G. Webster,Halit

Eren,2017-12-19 The Second Edition of the bestselling Measurement Instrumentation and Sensors Handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors Reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes Organized according to measurement problem the Electromagnetic Optical Radiation Chemical and Biomedical Measurement volume of the Second Edition Contains contributions from field experts new chapters and updates to all 98 existing chapters Covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables A concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development Measurement Instrumentation and Sensors Handbook Second Edition Electromagnetic Optical Radiation Chemical and Biomedical Measurement provides readers with a greater understanding of advanced applications

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Physical Optics and Light Measurements, 1989-02-01 Physical Optics and Light Measurements 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 The Infrared Handbook Environmental Research Institute of Michigan. Infrared Information and Analysis Center, United States. Office of Naval Research, 1978 *Handbook of Infrared Detection Technologies* M. Henini, M. Razeghi, 2002-12-11 Introduction Comparison of Photon and Thermal Detectors Performance GaAs AlGaAs Based Quantum Well Intra red Photodetector Focal Plane Arrays GaInAs P Based Qwips on GaAs InP and Si Substrates for Focal Plane Arrays InAs Galn Sb Superlattices A Promising Material System for Infra red Detection GaSb InAs Superlattices for Infra red FPAs MCT Properties Growth Methods and Characterization HgCdTe 2D Arrays Technology and Performance Limits Status of HgCdTe MBE Technology Silicon Infra red Focal Plane Arrays PolySiGe Uncooled Microbolometers for Thermal Infra red Detection Infra red Silicon Germanium Detectors Fundamentals of Spin Filtering in Ferromagnetic Metals with Application to Spin Sensors Quantum Well Intersubband Transition Physics and Devices Hui C. Liu, Barry F. Levine, Jan Y. Andersson, 2012-12-06 Intersubband transitions in quantum wells have attracted tremendous attention in recent years mainly due to the promise of applications in the mid and far infrared regions 2-20 μm Many of the papers presented in Quantum Well Intersubband Transition Physics and Devices are on the basic linear intersubband transition processes detector physics and detector application reflecting the current state of understanding and detector applications where highly uniform large focal plane arrays have been demonstrated Other areas are still in their early stages including infrared modulation harmonic generation and emission 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

Detection of Optical Signals Antoni Rogalski, Zbigniew Bielecki, 2022-06-09 Detection of Optical Signals provides a comprehensive overview of important technologies for photon detection from the X ray through ultraviolet visible infrared to far infrared spectral regions It uniquely combines perspectives from many disciplines particularly within physics and electronics which are necessary to have a complete understanding of optical receivers This interdisciplinary textbook aims to Guide readers into more detailed and technical treatments of readout optical signals Give a broad overview of optical signal detection including terahertz region and two dimensional material Help readers further their studies by offering chapter end problems and recommended reading This is an invaluable resource for graduate students in physics and engineering as well as a helpful refresher for those already working with aerospace sensors and systems remote sensing thermal imaging military imaging optical telecommunications infrared spectroscopy and light detection

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High Pressure Semiconductor Physics I, 1998-09-09 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in

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