

# Semiconducting Lead Chalcogenides

Y. I. Ravich



Springer

# Semiconducting Lead Chalcogenides

**Mark Green**



## **Semiconducting Lead Chalcogenides:**

Semiconducting Lead Chalcogenides IUrii Isaakovich Ravich,2013-11-11 The last decade has seen radical changes in our understanding of the physical properties of semiconductors It has been established that the energy spectrum of electrons is much more complex than had originally been predicted in many cases there are several energy bands with different parameters It has been found that the effective carrier mass which had been assumed to be constant for a given material depends on the carrier energy temperature pressure and even the nature and number of defects Our understanding of the mechanism of the motion and scattering of carriers recombination mechanisms and interaction with electromagnetic radiation has also changed New applications of semiconducting materials have been discovered and old ones have been extended these include high power devices devices sensitive to infrared radiation and lasers The visible evidence of the progress is in the form of hundreds of publications some of which report extremely refined and comprehensive investigations of semiconducting materials A scientist concerned with investigations or applications of semiconducting materials or devices cannot ignore these publications because of the possibility of repeating work already done or of committing serious errors On the other hand a beginner would require years to obtain a thorough understanding of the literature in his own narrow subject and in many cases this process would be like the chase of a tortoise by Achilles in the paradox of Zeno of Elea 495 435 B C

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**Lead Chalcogenides** D. Khokhlov,2002-11-15 Lead Chalcogenides remain one of the basic materials of modern infrared optoelectronics This volume presents the properties of lead chalcogenides including the basic physical features the bulk and epitaxial growth technique and the 2 D physics of lead chalcogenide based structures In addition the theoretical approaches for band structure and impurity state calculations are reviewed

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*Band Structure of Semiconductors* I. M. Tsidilkovski,2016-10-19 Band Structure of Semiconductors provides a review of the theoretical and experimental methods of investigating band structure and an analysis of the results of the developments in this field The book presents the problems methods and applications in the study of band structure Topics on the computational methods of band structure band structures of important semiconducting materials behavior of an electron in a perturbed periodic field effective masses and g factors for the most commonly encountered band structures and the treatment of cyclotron resonance Shubnikov de Haas oscillations magnetophonon resonance and magneto optical phenomena are discussed Experimental physicists theoretical

physicists students and research workers and engineers working in the field of semiconductor electronics will find this book a great source of vital information Electron Transport Phenomena in Semiconductors B. M. Askerov,1994 This book contains the first systematic and detailed exposition of the linear theory of the stationary electron transport phenomena in semiconductors Arbitrary isotropic and anisotropic nonparabolic bands as well as p Ge type bands are considered Phonon drag effect are taken account of in an arbitrary nonquantizing magnetic field Scattering theory is discussed in detail with account taken of the Bloch wave functions effect Transport phenomena in the quantizing magnetic field are studied as well as the size effects in thin films Band structures of the semiconductors and semiconductor compounds of interest are also considered The main part of the book deals with the three important problems charge carrier statistics in a semiconductor classical and quantum theory of the electron transport phenomena All the theoretical results considered as well as the validity conditions are presented in the form which may be directly used to interpret experimental data **Advanced Thermoelectric Materials - Theory, Development, and Applications** Uday M. Basheer Al-Naib,2025-07-30 Advanced Thermoelectric Materials Theory Development and Applications offers a comprehensive exploration of the science and technology behind thermoelectric materials from fundamental principles to emerging applications Designed for researchers engineers and graduate students this volume provides a clear and accessible overview of key concepts such as the Seebeck effect thermoelectric coefficients and the figure of merit ZT while also delving into advanced topics including band structure engineering phonon scattering mechanisms and microstructural optimization The book examines a wide range of thermoelectric materials including bismuth telluride lead telluride ceramic compounds and flexible organic systems alongside state of the art synthesis methods such as thin film deposition nanostructuring and doping strategies Practical insights are offered into electrical and thermal conductivity measurement techniques as well as real world applications in waste heat recovery automotive energy systems space exploration and wearable electronics By uniting theoretical knowledge with current research trends and practical engineering approaches this volume serves as a valuable reference for advancing the design and deployment of high performance thermoelectric systems Semiconducting Ore Minerals R Shuey,2012-12-02 Developments in Economic Geology 4 Semiconducting Ore Minerals provides a comprehensive discussion of the semiconductor physics of ore minerals which is a specialized field that is interdisciplinary to materials science and earth science The book is organized into four parts Part I deals with basic principles such as the electronic structure of solids electrical conduction in semiconductors and various crystal properties which like conductivity depend primarily upon the electronic structure It also discusses theoretical and experimental investigations pertinent to complex electrical inhomogeneity Part 2 examines the properties of elements such as bismuth copper and graphite Part 3 deals with sulfides including arsenopyrite bornite chalcocite chalcopyrite covellite molybdenite pyrrhotite and sphalerite Part 4 covers oxides including cassiterite cuprite hematite magnetite pyrolusite and rutile This book may be a useful reference for those involved

with research on ore minerals including geophysicists geochemists or extractive metallurgists

**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 *Nanoscale Compound Semiconductors and their Optoelectronics Applications* Vijay B. Pawade, Sanjay J. Dhoble, Hendrik C. Swart, 2022-01-21

Nanoscale Compound Semiconductors and their Optoelectronics Applications provides the basic and fundamental properties of nanoscale compound semiconductors and their role in modern technological products The book discusses all important properties of this important category of materials such as their optical properties size dependent properties and tunable properties Key methods are reviewed including synthesis techniques and characterization strategies The role of compound semiconductors in the advancement of energy efficient optoelectronics and solar cell devices is also discussed The book also touches on the photocatalytic property of the materials by doping with graphene oxides an emerging and new pathway Covers all relevant types of nanoscale compound semiconductors for optoelectronics including their synthesis properties and applications Provides historical context and review of emerging trends in semiconductor technology particularly emphasizing advances in non toxic semiconductor materials for green technologies Reviews emerging applications of nanoscale compound semiconductor based devices in optoelectronics energy and environmental sustainability

**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

**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

**Extended Defects in Semiconductors** D. B. Holt, B. G. Yacobi, 2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and

precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics

**Advanced Nanomaterials for Solution-Processed Flexible Optoelectronic Devices** Manjeet Singh, Ashish Kumar Singh, 2025-03-17 This book covers the recent advancements in the fabrication of flexible optoelectronic devices using advanced nanomaterials It provides information on how to process non layered advanced nanomaterials such as carbon nanotubes fullerenes nanowires colloidal quantum dots inorganic halide perovskite perovskite nanomaterials stabilized in porous materials doped ZnO lead chalcogenide nano crystals for the easy fabrication of the optoelectronic devices at an industrial scale Advanced Nanomaterials for Solution Processed Flexible Optoelectronic Devices provides up to date knowledge centered on the various non layered nanomaterials and their different types of application in optoelectronic device fabrication The first few chapters focus on the processing and applications of carbon nanotubes and fullerenes into devices for photovoltaics Throughout the book the authors demonstrate not only device fabrication but processing of the advanced nanomaterials to make them suitable for wide applications as different components in optoelectronics The book also presents discussions on the current challenges and future perspective for the proper processing and utilization of advanced nanomaterials for the fabrication of devices This book is intended for graduate students researchers and engineers working in the area of advanced nanomaterials energy conversion energy storage sensors and different types of optoelectronic devices

**Semiconductor Quantum Dots** Mark Green, 2014-07-01 Quantum dots are nano sized particles of semiconducting material typically chalcogenides or phosphides of metals found across groups II to VI of the periodic table Their small size causes them to exhibit unique optical and electrical properties which are now finding applications in electronics optics and in the biological sciences Synthesis of these materials began in the late 1980 s and this book gives a thorough background to the topic referencing these early discoveries Any rapidly expanding field will contain vast amounts of publications and this book presents a complete overview of the field bringing together the most relevant and seminal aspects literature in an informed and succinct manner The author has been an active participant in the field since its infancy in the mid 1990 s and presents a unique handbook to the synthesis and application of this unique class of materials Drawing on both his own experience and referencing the primary literature Mark Green has prepared Postgraduates and experienced researchers will benefit from the comprehensive nature of the book as will manufacturers of quantum dots and those wishing to apply them

*Semiconductor Radiation Detectors* Alan Owens, 2019-05-31 Choice Recommended Title July 2020 Bringing together material scattered across many disciplines Semiconductor Radiation Detectors provides readers with a consolidated

source of information on the properties of a wide range of semiconductors their growth characterization and the fabrication of radiation sensors with emphasis on the X and gamma ray regimes It explores the promise and limitations of both the traditional and new generation of semiconductors and discusses where the future in semiconductor development and radiation detection may lie The purpose of this book is two fold firstly to serve as a text book for those new to the field of semiconductors and radiation detection and measurement and secondly as a reference book for established researchers working in related disciplines within physics and engineering Features The only comprehensive book covering this topic Fully up to date with new developments in the field Provides a wide ranging source of further reference material

**Long-Wavelength Infrared Semiconductor Lasers** Hong K. Choi,2004-03-18 Long wavelength Infrared Semiconductor Lasers provides a comprehensive review of the current status of semiconductor coherent sources emitting in the mid to far infrared spectrum and their applications It includes three topics not covered in any previous book far infrared emission from photo mixers as well as from hot hole lasers and InP based lasers emitting beyond two micrometers Semiconductor lasers emitting at more than two micrometers have many applications such as in trace gas analysis environmental monitoring and industrial process control Because of very rapid progress in recent years until this book no comprehensive information beyond scattered journal articles is available at present **Quaternary Alloys Based on II - VI Semiconductors** Vasyl Tomashyk,2014-10-20 Doped by isovalent or heterovalent foreign impurities II VI semiconductor compounds enable control of optical and electronic properties making them ideal in detectors solar cells and other precise device applications Quaternary alloys allow a simultaneous adjustment of band gap and lattice constant increasing radiant efficiency at a wide rang *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

## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Semiconducting Lead Chalcogenides**

In some sort of inundated with displays and the cacophony of quick interaction, the profound power and psychological resonance of verbal artistry often diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, located within the musical pages of **Semiconducting Lead Chalcogenides**, a captivating work of literary splendor that impulses with fresh feelings, lies an wonderful trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this exciting opus guides viewers on a psychological odyssey, lightly exposing the latent potential and profound influence stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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