

Semiconducting Lead Chalcogenides

Y. I. Ravich



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D. Khokhlov

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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

Semiconducting Lead Chalcogenides Jurij Isaakovič Ravič, IUrii L. Ravich, 1970 *Semiconducting Lead Chalcogenides* [by] Yu. I. Ravich, B.A. Efimova, and I.A. Smirnov IUrii Isaakovich Ravich, Bella Anatol'evna Efimova, Igor' Aleksandrovich Smirnov, 1970

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. **Lead**

Chalcogenides D. Khokhlov, 2021-12-16 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. *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

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

Rare Earth and Transition Metal Doping of Semiconductor Materials Volkmar Dierolf, Ian Ferguson, John M Zavada, 2016-01-23 Rare Earth and Transition Metal Doping of Semiconductor Material explores traditional semiconductor devices that are based on control of the electron's electric charge. This book looks at the semiconductor materials used for spintronics applications in particular focusing on wide band gap semiconductors doped with transition metals and rare earths. These materials are of particular commercial interest because their spin can be controlled at room temperature, a clear opposition to the most previous research on Gallium Arsenide which allowed for control of spins at supercold temperatures. Part One of the book explains the theory of magnetism in semiconductors while Part Two covers the growth of semiconductors for spintronics. Finally Part Three looks at the characterization and properties of semiconductors for spintronics with Part Four exploring the devices and the future direction of spintronics. Examines materials which are of commercial interest for producing smaller, faster, and more power efficient computers and other devices. Analyzes the theory behind magnetism in semiconductors and the growth of semiconductors for spintronics. Details the properties of semiconductors for spintronics.

Semiconducting Fibers Ram K. Gupta, 2024-08-23 Semiconducting Fibers: Preparation, Advances, and Applications is a comprehensive study of the properties and emerging applications of semiconducting fibers. These nanomaterials have unique optoelectronic properties; they are flexible, one-dimensional, and lightweight and can grow in bulk, thin films, and nano dimensions (0D, 1D, 2D, 3D). Written by experts from around the world, this book covers the fundamentals of semiconducting fibers, their fabrication, and emerging applications in electronics, optoelectronics, energy, and healthcare. Various approaches to fabricating semiconducting fibers, their characteristics, and the working principles of nano-dimensional devices are covered. Key features: Expert scientists across the world present the state of the art progress on semiconducting fibers for emerging applications including flexible and wearable electronics. Provides details of novel methods and advanced technologies used in energy applications of semiconducting fibers. Provides fundamentals of electrochemical behavior and their understanding of optoelectronics, photovoltaics, batteries, fuel cells, sensors, and supercapacitors. Presents fabrication, characterization, and applications of semiconducting fibers for energy conversion and storage. This book will be a key resource for students, academics, and industry professionals interested in the fabrication, device technologies, and applications of semiconducting fibers.

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 **CRC Handbook of Thermoelectrics** D.M.

Rowe, 2018-12-07 Thermoelectrics is the science and technology associated with thermoelectric converters that is the generation of electrical power by the Seebeck effect and refrigeration by the Peltier effect Thermoelectric generators are being used in increasing numbers to provide electrical power in medical military and deep space applications where combinations of their desirable properties outweigh their relatively high cost and low generating efficiency In recent years there also has been an increase in the requirement for thermoelectric coolers Peltier devices for use in infrared detectors and in optical communications Information on thermoelectrics is not readily available as it is widely scattered throughout the literature The Handbook centralizes this information in a convenient format under a single cover Sixty of the world's foremost authorities on thermoelectrics have contributed to this Handbook It is comprised of fifty five chapters a number of which contain previously unpublished material The contents are arranged in eight sections general principles and theoretical considerations material preparation measurement of thermoelectric properties thermoelectric materials thermoelectric generation generator applications thermoelectric refrigeration and applications of thermoelectric cooling The CRC Handbook of Thermoelectrics has a broad based scope It will interest researchers technologists and manufacturers as well as students and the well informed non specialist reader Organic Semiconductors and Biopolymers Leonid I. Boguslavskii, 2013-04-17

In recent years considerable progress has been made in the study of organic semiconductors The main directions of investigation have been determined and substantial results have been achieved in the theoretical treatment of many questions However the range of investigations is so broad that it is impossible to discuss all branches fully in a short monograph In fact the chemist synthesizing systems with conjugated bonds and studying their reactivity the physicist studying the catalytic and absorption properties of substances with conjugated bonds the physicist studying the photoelectric and magnetic characteristics of dyes and polynuclear hydrocarbons and the biologist attempting to explain the mechanism of energy transfer in the living cell they are all working in the field of organic semiconductors Consequently in the present book the authors have not attempted to include all sides of the problem of organic semiconductors The monograph considers in detail only those questions which appear to the authors to be most immediate and interesting Other questions are touched on only to the extent necessary to illustrate the main material The book begins with a statement of

material which is of the nature of a review The main classes of organic semiconductors are mentioned but the methods for their preparation are not illustrated in detail Somewhat more attention is devoted to the dependence of the electrical characteristics of organic semiconductors on their structure and chemical composition *Scientific and Technical Aerospace Reports* ,1972 **Semiconductor Materials** Lev I. Berger,2020-12-17 Semiconductor Materials presents physico chemical electronic electrical elastic mechanical magnetic optical and other properties of a vast group of elemental binary and ternary inorganic semiconductors and their solid solutions It also discusses the properties of organic semiconductors Descriptions are given of the most commonly used semiconductor devices charge coupled devices field effect transistors unijunction transistors thyristors Zener and avalanche diodes and photodiodes and lasers The current trend of transitioning from silicon technology to gallium arsenide technology in field effect based electronic devices is a special feature that is also covered More than 300 figures and 100 tables highlight discussions in the text and more than 2 000 references guide you to further sources on specific topics Semiconductor Materials is a relatively compact book containing vast information on semiconductor material properties Readers can compare results of the property measurements that have been reported by different authors and critically compare the data using the reference information contained in the book Engineers who design and improve semiconductor devices researchers in physics and chemistry and students of materials science and electronics will find this a valuable guide

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