

Semiconducting Lead Chalcogenides

Y. I. Ravich



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R Shuey



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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 include 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

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

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

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

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

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

Semiconductors T. F. Connolly, 2012-12-06 And often on request from the issuing installation USAEC reports are also available from International Atomic Energy Agency Kaerntnerring A 1010 Vienna Austria National Lending Library Boston Spa England Monographs and reports of the National Bureau of Standards are for sale by Superintendent of Documents U S Government Printing Office Washington D C 20402 Theses listed as Dissertation Abstracts number are available in North and South America from University Microfilms Dissertation Copies P O Box 1764 Ann Arbor Michigan 48106 and elsewhere from University Microfilms Ltd St John s Road Tylers Green Penn Buckinghamshire England Conlenls Addendum xiii 1 Information Centers and Other Services 1 2 Journals 3 3 Methods of Crystal Growth Books and Reviews 5 4 Semiconductors General Reviews and Bibliographies 11 5 1 V VI Compounds 21 6 li IV V2 Compounds 23 7 II V Compounds 29 a General Reviews and Bibliographies 29 b Zinc Compounds 30 1 Zn3P2 30 2 ZnAs 30 3 ZnSb 30 4 Zn Mixed Systems 31 c Cadmium Compounds 31

31 1 Cd₃P₂ 2 Cd₃As₂ 31 3 CdSb Cd₃Sb₂ 33 37 8 li VI Compounds a General Reviews and Bibliographies 37 b Zinc Compounds 39 1 ZnO 39 Preparation and Properties 39 Electrical Properties 41 Optical Properties 45 Physical Properties and Structure 47 2 ZnS 49 3 ZnSe 52 4 ZnTe 54 5 Zn Mixed Systems 55 55 c Cadmium Compounds 55 1 CdS 2 CdSe 60 3 CdTe 61 4 CdTernaries 62 d Mercury Compounds 64

Semiconductors and the Information Revolution John W. Orton, 2009-06-17 Semiconductors and the Information Revolution sets out to explain the development of modern electronic systems and devices from the viewpoint of the semiconductor materials germanium silicon gallium arsenide and many others which made them possible It covers the scientific understanding of these materials and its intimate relationship with their technology and many applications It began with Michael Faraday took off in a big way with the invention of the transistor at Bell Labs in 1947 and is still burgeoning today It is a story to match any artistic or engineering achievement of man and this is the first time it has been presented in a style suited to the non specialist It is written in a lively non mathematical style which brings out the excitement of discovery and the fascinating interplay between the demands of system pull and technological push It also looks at the nature of some of the personal interactions which helped to shape the modern technological world An introductory chapter illustrates just how dependent we are on modern electronic systems and explains the significance of semiconductors in their development It also provides in as painless a way as possible a necessary understanding of semiconductor properties in relation to these applications The second chapter takes up the historical account and ends with some important results emerging from the Second World War including its effect on the organisation of scientific research Chapter three describes the world shaking discovery of the transistor and some of the early struggles to make it commercially viable including the marketing of the first transistor radio In chapter four we meet the integrated circuit which gave shape to much of our modern life in the form of the personal computer and which gave rise to a famously long running patent war Later chapters cover the application of compound semiconductors to light emitting devices such as LEDs and lasers and light detecting devices such as photocells We learn how these developments led to the invention of the CD player and DVD recorder how other materials were applied to the development of sophisticated night vision equipment fibre optical communications systems solar photovoltaic panels and flat panel displays Similarly microwave techniques essential to our modern day love of mobile phoning are seen to depend on clever materials scientists who not for the first time invented new semiconductors with just the right properties Altogether it is an amazing story and one which deserves to be more widely known Read this book and you will be rewarded with a much deeper understanding and appreciation of the technological revolution which shapes so many aspects of our lives A historical account of the development of semiconductor physics devices and applications from the nineteenth century to the present day Coverage of the importance of material quality and its relation to the physics of the devices Presented in a strictly non mathematical and anecdotal way to appeal to a wide audience Provides the broad sweep of science history

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

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 synthe sizing systems with conjugated bonds and studying their reactivity the physical chemist studying the catalytic and absorption proper ties 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 mechan ism of energy transfer in the living cell they are all working in the field of organic semiconductors Consequenti y 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 illus trated in detail Somewhat more attention is devoted to the depen dence of the electrical characteristics of organic semiconductors on their structure and chemical composition

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 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 *State-of-the-Art Program on Compound Semiconductors XL : (SOTAPOCS XL) and Narrow Bandgap Optoelectronic Materials and Devices II* D. N. Buckley, 2004 **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 Scientific and Technical Aerospace Reports ,1972

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Table of Contents Semiconducting Lead Chalcogenides

1. Understanding the eBook Semiconducting Lead Chalcogenides
 - The Rise of Digital Reading Semiconducting Lead Chalcogenides
 - Advantages of eBooks Over Traditional Books
2. Identifying Semiconducting Lead Chalcogenides
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Semiconducting Lead Chalcogenides
 - User-Friendly Interface
4. Exploring eBook Recommendations from Semiconducting Lead Chalcogenides
 - Personalized Recommendations
 - Semiconducting Lead Chalcogenides User Reviews and Ratings
 - Semiconducting Lead Chalcogenides and Bestseller Lists

5. Accessing Semiconducting Lead Chalcogenides Free and Paid eBooks
 - Semiconducting Lead Chalcogenides Public Domain eBooks
 - Semiconducting Lead Chalcogenides eBook Subscription Services
 - Semiconducting Lead Chalcogenides Budget-Friendly Options
6. Navigating Semiconducting Lead Chalcogenides eBook Formats
 - ePub, PDF, MOBI, and More
 - Semiconducting Lead Chalcogenides Compatibility with Devices
 - Semiconducting Lead Chalcogenides Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Semiconducting Lead Chalcogenides
 - Highlighting and Note-Taking Semiconducting Lead Chalcogenides
 - Interactive Elements Semiconducting Lead Chalcogenides
8. Staying Engaged with Semiconducting Lead Chalcogenides
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Semiconducting Lead Chalcogenides
9. Balancing eBooks and Physical Books Semiconducting Lead Chalcogenides
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Semiconducting Lead Chalcogenides
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Semiconducting Lead Chalcogenides
 - Setting Reading Goals Semiconducting Lead Chalcogenides
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Semiconducting Lead Chalcogenides
 - Fact-Checking eBook Content of Semiconducting Lead Chalcogenides
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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