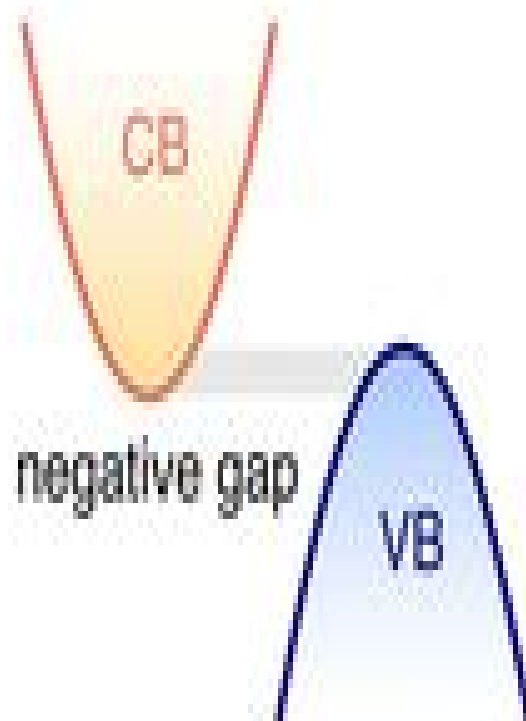


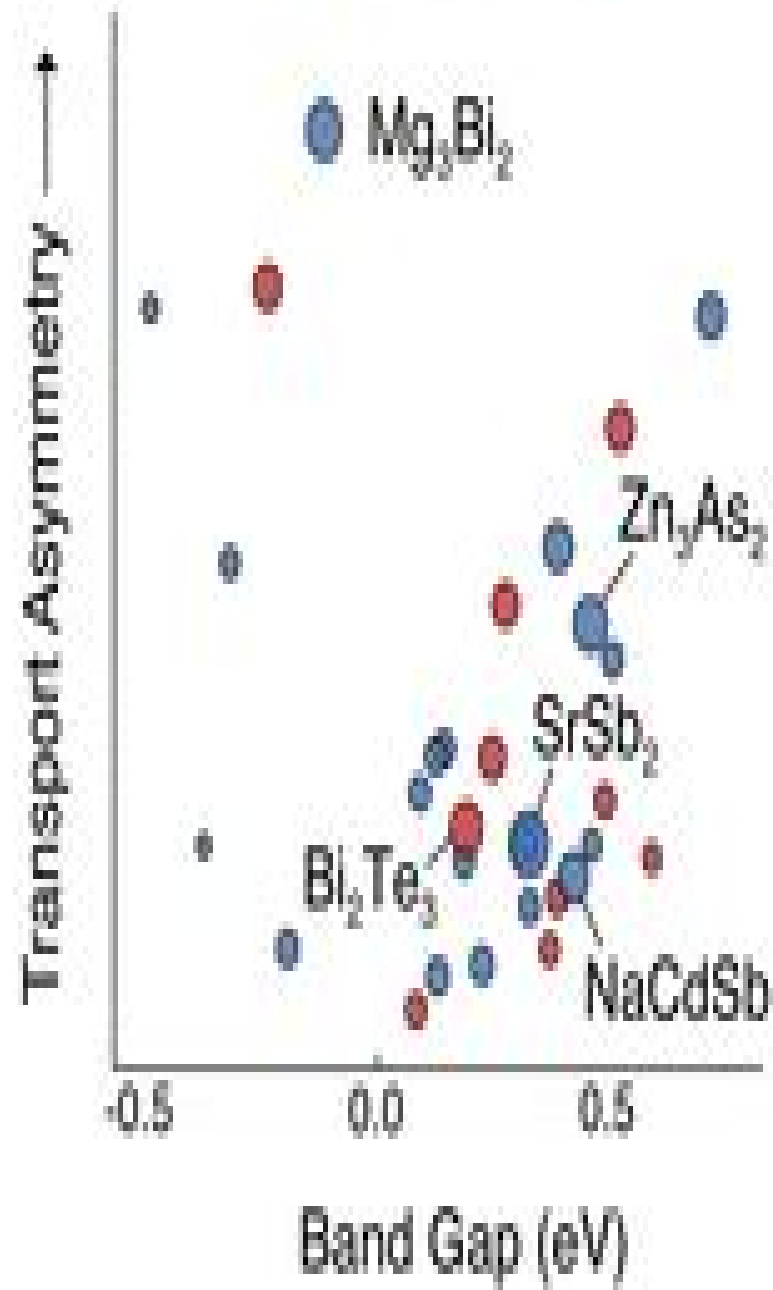
narrow gap
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Semimetals And Narrow Bandgap Semiconductors

J R Leite,A S Chaves,Adalberto Fazzio



Semimetals And Narrow Bandgap Semiconductors:

Semimetals & Narrow-bandgap Semiconductors D. R. Lovett, 1977 **Physics and Properties of Narrow Gap Semiconductors** Junhao Chu, Arden Sher, 2007-11-21

Narrow gap semiconductors obey the general rules of semiconductor science but often exhibit extreme features of these rules because of the same properties that produce their narrow gaps. Consequently these materials provide sensitive tests of theory and the opportunity for the design of innovative devices. For example narrow gap semiconductors are the most important materials for the preparation of advanced modern infrared systems. In this book the authors offer clear descriptions of crystal growth and the fundamental structure and properties of these unique materials. Topics covered include band structure, optical and transport properties and lattice vibrations and spectra. A thorough treatment of the properties of low dimensional systems and their relation to infrared applications is provided. In addition to covering the technology of photoconductive detectors, photovoltaic detectors, metal insulator semiconductor devices, quantum well infrared photodetectors, infrared lasers and single photon detectors, *Physics and Properties of Narrow Gap Semiconductors* helps readers to understand semiconductor physics and related areas of materials science and how they relate to advanced optoelectronic devices.

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.

Properties of Narrow Gap Cadmium-based Compounds Peter Capper, 1994. This highly structured volume contains sections on growth and device aspects of mercury cadmium telluride (MCT).

Springer Handbook of Electronic and Photonic Materials Safa Kasap, Peter Capper, 2017-10-04. The second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications. Its extensive coverage with clear illustrations and applications, carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks. It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories. The Springer Handbook of Electronic and Photonic Materials second edition includes practical applications used as examples, details of experimental techniques, useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary. Along with significant updates to the content and the references, the second edition includes a number of new chapters such as those covering novel materials and selected applications. This handbook is a valuable resource for graduate students, researchers and practicing professionals working in the area of electronic, optoelectronic and photonic materials.

Semimetals N.B. Brandt, S.M. Chudinov, Y.G.

Ponomarev, 2012-12-02 Semimetals presents for the first time in the literature a consistent and unifying treatment of semimetals As Bi Sb Bi Sb alloys graphite and its compounds It describes their structural features and their electric magnetic galvanomagnetic thermoelectric optical magneto optical acoustic thermal and mechanical properties on the basis of modern concepts of the electron and phonon energy spectra The book discusses in detail the character of the changes in the energy spectrum and properties of semimetals due to temperature variations application of a magnetic field pressure anisotropic strain doping by donor acceptor and neutral impurities which indicate how the above properties may be altered and how materials with preassigned parameters can be produced Furthermore it discusses specific phenomena associated with low dimensionality and the very low carrier density such as quantum oscillations and magnetoplasma behaviour **Einstein Relation in Compound Semiconductors and Their Nanostructures** Kamakhya Prasad Ghatak, Sitangshu Bhattacharya, Debashis De, 2008-11-16 Focusing only on the Einstein relation in compound semiconductors and their nanostructures this book deals with open research problems from carbon nanotubes to quantum wire superlattices with different band structures and other field assisted systems **Structure-Property Relations** R. E. Newnham, 2012-12-06 As a boy I loved to build model airplanes not the snap together plastic models of today but the old fashioned Spads and Sopwith Camels made of balsa wood and tissue paper I dreamed of EDDIE RICKENBACKER and dogfights with the Red Baron as I sat there sniffing airplane glue Mother thought I would never grow up to make an honest living and mothers are never wrong Thirty years later I sit in a research laboratory surrounded by crystal models and dream of what it would be like to be 1 A tall to rearrange atoms with pick and shovel and make funny things happen inside Professor VON HIPPEL calls it Molecular Engineering the building of materials and devices to order We begin to design materials with prescribed properties to understand the molecular causes of their failings to build into them safe guards against such failure and to arrive at true yardsticks of ultimate performance No longer shackled to presently available materials we are free to dream and find answers to unprecedented challenges It is this revolutionary situation which makes scientists and engineers true allies in a great adventure of the human mind 1 This book is about structure property relationships more especially applications of crystal chemistry to engineering problems Faced with the task of finding new materials the crystallographer uses ionic radii crystal fields anisotropic atomic groupings and symmetry arguments as criteria in the materials selection process *Heavily-Doped 2D-Quantized Structures and the Einstein Relation* Kamakhya P. Ghatak, Sitangshu Bhattacharya, 2014-07-30 This book presents the Einstein Relation ER in two dimensional 2 D Heavily Doped HD Quantized Structures The materials considered are quantized structures of HD non linear optical III V II VI Ge Te Platinum Antimonide stressed materials GaP Gallium Antimonide II V Bismuth Telluride together with various types of HD superlattices and their Quantized counterparts respectively The ER in HD opto electronic materials and their nanostructures is studied in the presence of strong light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum

effect devices The suggestion for the experimental determination of HD 2D and 3D ERs and the importance of measurement of band gap in HD optoelectronic materials under intense built in electric field in nanodevices and strong external photo excitation for measuring photon induced physical properties are also discussed in this context The influence of crossed electric and quantizing magnetic fields on the ER of the different 2D HD quantized structures quantum wells inversion and accumulation layers quantum well HD superlattices and nipi structures under different physical conditions is discussed in detail This monograph contains 100 open research problems which form the integral part of the text and are useful for both Ph D aspirants and researchers in the fields of condensed matter physics solid state sciences materials science nano science and technology and allied fields

The Physics of Semimetals and Narrow-gap Semiconductors David L. Carter, Robert T. Bate, 1971

Semiconductor Physics - Proceedings Of The 5th Brazilian School J R Leite, A S Chaves, Adalberto

Fazzio, 1992-11-06

Handbook of the Physics of Thin-Film Solar Cells Karl W. Böer, 2014-04-23 This handbook is a compendium giving a comprehensive description of the basics of semiconductor physics relevant to the design and analysis of thin film solar cell materials It starts from the basics of material science describing the material and its growth defect and electrical properties the basics of its interaction with photons and the involved statistics proceeding to space charge effects in semiconductors and pn junctions Most attention is given to analyze homo and hetero junction solar cells using various models and applying the field of direction analysis for discussing current voltage characteristics and helping to discover the involvement of high field effects in solar cells The comprehensive coverage of the main topics of and relating to solar cells with extensive reference to literature helps scientists and engineers at all levels to reach a better understanding and improvement of solar cell properties and their production The author is one of the founders of thin film solar cell research

Electron Statistics In Quantum Confined Superlattices Kamakhya Prasad Ghatak, Arindam Biswas, 2023-03-14 The concepts of the Electron Statistics ES and the ES dependent electronic properties are basic pillars in semiconductor electronics and this first of its kind book deals with the said concepts in doping superlattices SLs quantum well quantum wire and quantum dot SLs effective mass SLs SLs with graded interfaces and Fibonacci SLs under different physical conditions respectively The influences of intense radiation and strong electric fields under said concepts have been considered together with the heavily doped SLs in this context on the basis of newly formulated the electron energy spectra in all the cases We have suggested experimental determinations of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length Elastic Constants and the content of this book finds 25 different applications in the arena of nanoscience and nanotechnology This book contains hundred open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers It is written for post graduate students of various departments of different academic organizations engineers and professionals in the fields of solid state electronics materials science solid state sciences nano science nanotechnology and nano materials in general

Dynamical Properties of IV-VI Compounds, 2006-04-11

Solid State Physics J. S. Blakemore, 1985-12-12 Updated to reflect recent work in the field this book emphasizes crystalline solids going from the crystal lattice to the ideas of reciprocal space and Brillouin zones and develops these ideas for lattice vibrations for the theory of metals and for semiconductors The theme of lattice periodicity and its varied consequences runs through eighty percent of the book Other sections deal with major aspects of solid state physics controlled by other phenomena superconductivity dielectric and magnetic properties and magnetic resonance

Photoemission from Optoelectronic Materials and their Nanostructures Kamakhya Prasad Ghatak, Sitangshu Bhattacharya, Debashis De, 2010-03-14 In recent years with the advent of fine line lithographical methods molecular beam epitaxy organometallic vapour phase epitaxy and other experimental techniques low dimensional structures having quantum confinement in one two and three dimensions such as ultrathin films inversion layers accumulation layers quantum well superlattices quantum well wires quantum wires superlattices magneto size quantizations and quantum dots have attracted much attention not only for their potential in uncovering new phenomena in nanoscience and technology but also for their interesting applications in the areas of quantum effect devices In ultrathin films the restriction of the motion of the carriers in the direction normal to the film leads to the quantum size effect and such systems find extensive applications in quantum well lasers field effect transistors high speed digital networks and also in other quantum effect devices In quantum well wires the carriers are quantized in two transverse directions and only one dimensional motion of the carriers is allowed

Fowler-Nordheim Field Emission Sitangshu Bhattacharya, Kamakhya Prasad Ghatak, 2012-01-13 This monograph solely presents the Fowler Nordheim field emission FNFE from semiconductors and their nanostructures The materials considered are quantum confined non linear optical III V II VI Ge Te carbon nanotubes PtSb₂ stressed materials Bismuth GaP Gallium Antimonide II V Bi₂Te₃ III V II VI IV VI and HgTe CdTe superlattices with graded interfaces and effective mass superlattices under magnetic quantization and quantum wires of the aforementioned superlattices The FNFE in optoelectronic materials and their quantum confined counterparts is studied in the presence of light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices The importance of band gap measurements in optoelectronic materials in the presence of external fields is discussed from this perspective This monograph contains 200 open research problems which form the very core and are useful for Ph D students and researchers The book can also serve as a basis for a graduate course on field emission from solids

Density-of-states Function And Related Applications In Quantized Structures Kamakhya Prasad Ghatak, Arindam Biswas, 2025-05-29 In recent years there has been considerable interest in studying the DENSITY OF STATES DOS functions and Related Applications in Quantized Structures of different technologically important materials in low dimensional electronics The concept of DOS function is of fundamental importance for not only the characterization of semiconductor nanostructures but also in the study of the carrier transport in quantum effect devices The acoustic mobility limited momentum relaxation time is inversely

proportional to the respective DOS function of a particular semiconductor and the DOS function in turn is connected to the twenty five important transport topics of quantum effect devices namely the Landau Dia and Pauli s Para Magnetic Susceptibilities the Einstein s Photoemission the Einstein Relation the Debye Screening Length the Generalized Raman gain the Normalized Hall coefficient the Fowler Nordheim Field Emission the Gate Capacitance the Thermoelectric Power the Plasma Frequency the Magneto Thermal effect in Quantized Structures the Activity coefficient the Reflection coefficient the Heat Capacity the Faraday rotation the Optical Effective Mass the Carrier contribution to the elastic constants the Diffusion coefficient of the minority carriers the Nonlinear optical response the Third order nonlinear optical susceptibility the Righi Leduc coefficient the Electric Susceptibility the Electric Susceptibility Mass the Electron Diffusion Thermo power and the Hydrostatic Piezo resistance Coefficient respectively This first of a kind monograph investigates the DOS function and the aforementioned applications in quantized structures of tetragonal and non linear optical III V II VI Gallium Phosphide Germanium Platinum Antimonide stressed IV VI Lead Germanium Telluride II V Zinc and Cadmium diphosphides and Bismuth Telluride respectively We have also formulated the same and the allied physical properties of III V II VI IV VI and HgTe CdTe quantum well Heavily Doped HD superlattices with graded interfaces under magnetic quantization III V II VI IV VI and HgTe CdTe HD effective mass superlattices under magnetic quantization quantum confined effective mass superlattices and superlattices of HD optoelectronic materials with graded interfaces in addition to other quantized structures respectively This book covers from elementary applications in the first chapter up to rather advanced investigations in the later chapters We have suggested experimental determinations of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length and Elastic Constants in various types of quantized structures under different physical conditions This book contains 222 current open research problems which form an integral part of the text and are useful for both aspiring students and researchers It is written for graduate post graduate students engineers and professionals in the fields of condensed matter physics solid state sciences materials science nanoscience nanotechnology and nanostructured materials in general and this book will be invaluable to all those researching in academic and industrial laboratories in the said cases worldwide

Principles of Inorganic Materials Design John N. Lalena, David A.

Cleary, 2005-04-15 A unique interdisciplinary approach to inorganic materials design Textbooks intended for the training of chemists in the inorganic materials field often omit many relevant topics With its interdisciplinary approach this book fills that gap by presenting concepts from chemistry physics materials science metallurgy and ceramics in a unified treatment targeted towards the chemistry audience Semiconductors metal alloys and intermetallics as well as ceramic substances are covered Accordingly the book should also be useful to students and working professionals in a variety of other disciplines This book discusses a number of topics that are pertinent to the design of new inorganic materials but are typically not covered in standard solid state chemistry books The authors start with an introduction to structure at the mesoscopic level

and progress to smaller length scales Next detailed consideration is given to both phenomenological and atomistic level descriptions of transport properties the metal nonmetal transition magnetic and dielectric properties optical properties and mechanical properties Finally the authors present introductions to phase equilibria synthesis and nanomaterials Other features include Worked examples demonstrating concepts unfamiliar to the chemist Extensive references to related literature leading readers to more in depth coverage of particular topics Biographies introducing the reader to great contributors to the field of inorganic materials science in the twentieth century With their interdisciplinary approach the authors have set the groundwork for communication and understanding among professionals in varied disciplines who are involved with inorganic materials engineering Armed with this publication students and researchers in inorganic and physical chemistry physics materials science and engineering will be better equipped to face today s complex design challenges This textbook is appropriate for senior level undergraduate and graduate course work

Semiconductor Physics Karlheinz Seeger, 2013-03-09 This book now in its ninth edition still has the character of a textbook with the emphasis on Physics The volume has increased somewhat because several improvements have been made and some new items have been included In Sect 13 2 the new Quantum Cascade Laser which covers the far infrared spectral range has been added In Sect 14 4 the theory of the quantum Hall effect is now based on ballistic transport which in a more general respect without referring to the then still unknown quantum Hall effect was considered already by Rudolf Peierls In the same chapter the recent discovery of a low temperature resistance oscillation in a very pure semiconductor under the influence of combined dc and ac electric fields in addition to a magnetic field is presented Furthermore quantum Hall effect observations with an unprecedented high precision are remarkable and may give a new impetus to theory A new Sect 15 5 presents information about coaxial carbon tubes of nanometer size diameter and how they are integrated as the current transporting element in a field effect transistor In another new addition Sect 15 6 with the title Molecular Electronics the current voltage rectifying characteristics of an organic Langmuir Blodgett film of nanometer thickness is shown These efforts serve to demonstrate where the ever decreasing size of electronic circuits may come to its natural limits The system of units preferred here is the SI system

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