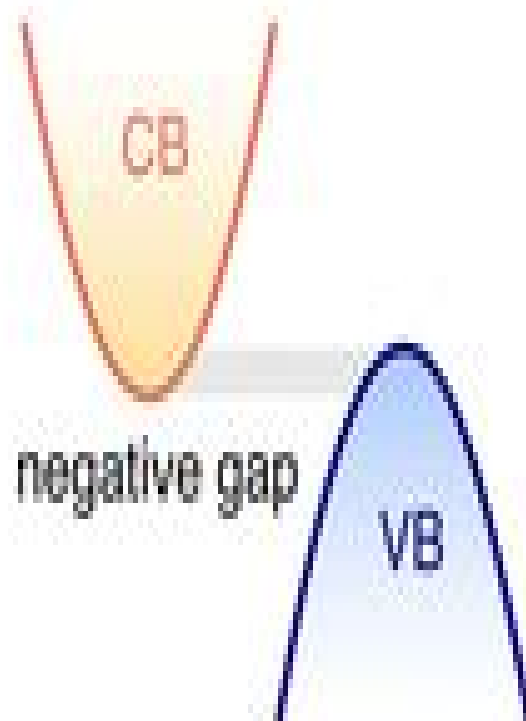


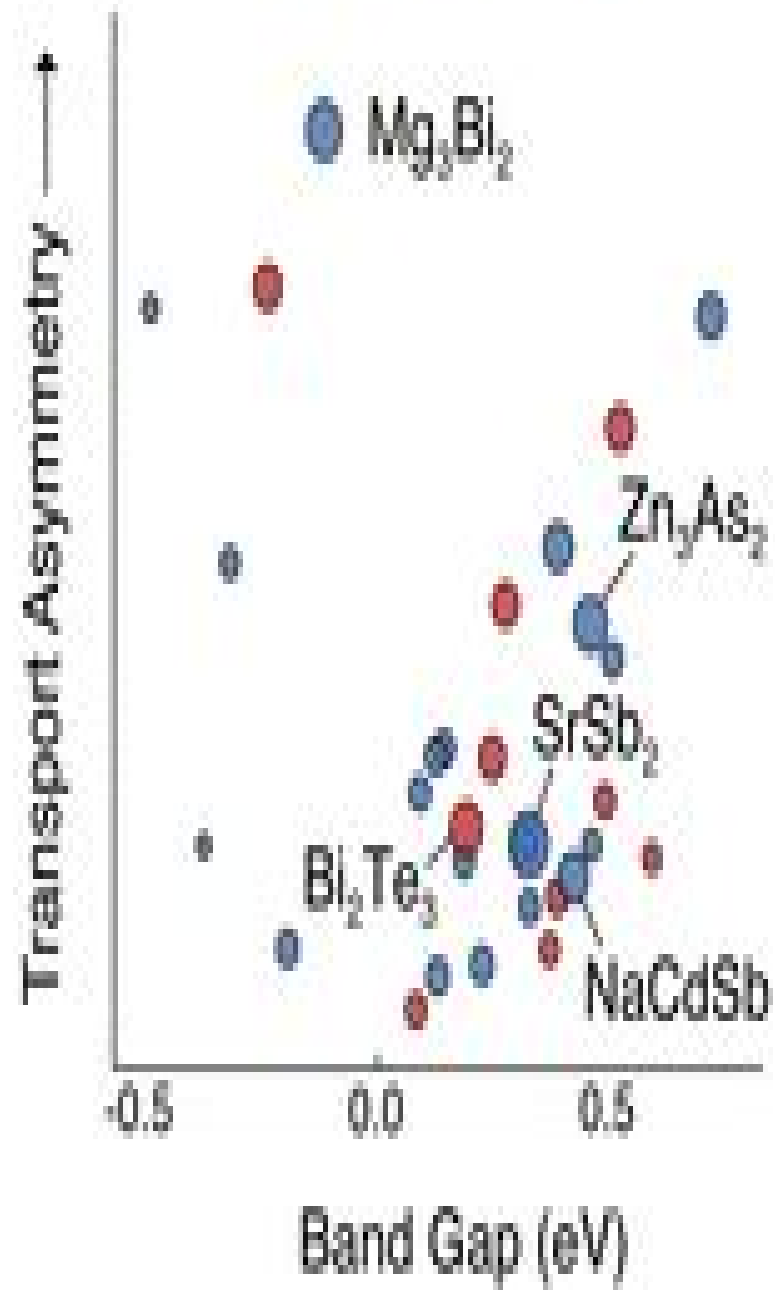
narrow gap
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semimetal



zI_{max} ■ n-type ■ p-type



Semimetals And Narrow Bandgap Semiconductors

**N.B. Brandt, S.M. Chudinov, Y.G.
Ponomarev**



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

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

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 *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

Nanomaterials Engg Kamakhya Prasad Ghatak, Madhuchhanda Mitra, 2018-11-05 The work studies under different physical conditions the carrier contribution to elastic constants in heavily doped optoelectronic materials In the presence of intense photon field the authors apply the Heisenberg Uncertainty Principle to formulate electron statistics Many open research problems are discussed and numerous potential applications as quantum sensors and quantum cascade lasers are presented

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

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

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 Comprehensive Semiconductor Science and Technology ,2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field *Dynamical Properties of IV-VI Compounds* ,2006-04-11 **Semiconductor Physics - Proceedings Of The 5th Brazilian School** J R Leite,A S Chaves,Adalberto Fazzio,1992-11-06 Einstein's Photoemission Kamakhya Prasad Ghatak,2014-11-19 This monograph solely investigates the Einstein s Photoemission EP from Heavily Doped HD Quantized Structures on the basis of newly formulated electron dispersion laws 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 EP in HD opto electronic materials and their nanostructures is studied in the presence of strong light waves and intense electric fields that control the studies of such quantum effect devices The suggestions for the experimental determinations of different important physical quantities in HD 2D and 3D materials and the importance of measurement of band gap in HD optoelectronic materials under intense built in electric field in nano devices and strong external photo excitation for measuring physical properties in the presence of

intense light waves which alter the electron energy spectra have also been discussed in this context The influence quantizing magnetic field on the EP of the different HD quantized structures quantum wells quantum well HD superlattices and nipi structures under different physical conditions has been investigated 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 materials science condensed matter physics solid state sciences nano science and technology and allied fields in addition to the graduate courses in modern semiconductor nanostructures offered in different Universities and Institutes

Heisenberg's Uncertainty Principle and the Electron Statistics in Quantized Structures Kamakhya Prasad Ghatak, Madhuchhanda Mitra, Arindam Biswas, 2022-03-25 This book highlights the importance of Electron Statistics ES which occupies a singular position in the arena of solid state sciences in heavily doped HD nanostructures by applying Heisenberg's Uncertainty Principle directly without using the complicated Density of States function approach as given in the literature The materials considered are HD quantum confined nonlinear optical III V II VI IV VI GaP Ge PtSb₂ stressed materials GaSb Te II V Bi₂Te₃ lead germanium telluride zinc and cadmium diphosphides and quantum confined III V IV VI II VI and HgTe CdTe super lattices with graded interfaces and effective mass super lattices The presence of intense light waves in optoelectronics and strong electric field in nano devices change the band structure of materials in fundamental ways which have also been incorporated in the study of ES in HD quantized structures of optoelectronic compounds that control the studies of the HD quantum effect devices under strong fields The influence of magnetic quantization magneto size quantization quantum wells wires and dots crossed electric and quantizing fields intense electric field and light waves on the ES in HD quantized structures and superlattices are discussed The content of this book finds six different applications in the arena of nano science and nanotechnology and the various ES dependent electronic quantities namely the effective mass the screening length the Einstein relation and the elastic constants have been investigated This book is useful for researchers engineers and professionals in the fields of Applied Sciences solid state and materials science nano science and technology condensed matter physics and allied fields including courses in semiconductor nanostructures

Quantum Physics of Semiconductor Materials and Devices Debdeep Jena, 2022-05-16 Quantum Phenomena do not occur in a Hilbert space They occur in a laboratory Asher Peres Semiconductor physics is a laboratory to learn and discover the concepts of quantum mechanics and thermodynamics condensed matter physics and materials science and the payoffs are almost immediate in the form of useful semiconductor devices Debdeep Jena has had the opportunity to work on both sides of the fence on the fundamental materials science and quantum physics of semiconductors and in their applications in semiconductor electronic and photonic devices In Quantum Physics of Semiconductors and Nanostructures Jena uses this experience to make each topic as tangible and accessible as possible to students at all levels Consider the simplest physical processes that occur in semiconductors electron or hole transport in bands and over barriers collision of electrons with the atoms in the crystal or

when electrons and holes annihilate each other to produce a photon The correct explanation of these processes require a quantum mechanical treatment Any shortcuts lead to misconceptions that can take years to dispel and sometimes become roadblocks towards a deeper understanding and appreciation of the richness of the subject A typical introductory course on semiconductor physics would then require prerequisites of quantum mechanics statistical physics and thermodynamics materials science and electromagnetism Rarely would a student have all this background when s he takes a course of this nature in most universities Jena s work fills in these gaps and gives students the background and deeper understanding of the quantum physics of semiconductors and nanostructures *Semiconductor Physics* Karl W. Böer,Udo W. Pohl,2023-02-02

This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues *Semiconductor Physics* is an invaluable reference for physicists materials scientists and engineers throughout academia and industry

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