OPTOELECTRONIC PROPERTIES of SEMICONDUCTORS and SUPERLATTICES

M.O. Manasreh, series editor

Volume 18 LEAD CHALCOGENIDES PHYSICS AND APPLICATIONS

Edited by

Dmitriy Khokhlov



Semiconductors Chalcogenides

Victor I. Mikla, Victor V. Mikla

Semiconductors Chalcogenides:

Applications of Chalcogenides: S, Se, and Te Gurinder Kaur Ahluwalia, 2016-11-02 This book introduces readers to a wide range of applications for elements in Group 16 of the periodic table such as optical fibers for communication and sensing X ray imaging electrochemical sensors data storage devices biomedical applications photovoltaics and IR detectors the rationale for these uses the future scope of their applications and expected improvements to existing technologies Following an introductory section the book is broadly divided into three parts dealing with Sulfur Selenium and Tellurium The sections cover the basic structure of the elements and their compounds in bulk and nanostructured forms properties that make these useful for various applications followed by applications and commercial products As the global technology revolution necessitates the search for new materials and more efficient devices in the electronics and semiconductor industry Applications of Chalcogenides S Se and Te is an ideal book for a wide range of readers in industry government and academic research facilities looking beyond silicon for materials used in the electronic and optoelectronic industry as well as Amorphous Chalcogenide Semiconductors and Related Materials Keiji Tanaka, Koichi biomedical applications Shimakawa, 2021-07-01 This book provides introductory comprehensive and concise descriptions of amorphous chalcogenide semiconductors and related materials It includes comparative portraits of the chalcogenide and related materials including amorphous hydrogenated Si oxide and halide glasses and organic polymers It also describes effects of non equilibrium disorder in comparison with those in crystalline semiconductors Chalcogenides Alexander V. Kolobov, Junji Tominaga, 2012-08-22 A state of the art description of metastability observed in chalcogenide alloys is presented with the accent on the underlying physics A comparison is made between sulphur selenium based chalcogenide glasses where numerous photo induced phenomena take place entirely within the amorphous phase and tellurides where a reversible crystal to amorphous phase change transformation is a major effect Applications of metastability in devices optical memories and nonvolatile electronic phase change random access memories among others are discussed including the latest trends Background material essential for understanding current research in the field is also provided Electrochemistry of Metal Chalcogenides Mirtat Bouroushian, 2010-04-23 The author provides a unified account of the electrochemical material science of metal chalcogenide MCh compounds and alloys with regard to their synthesis processing and applications Starting with the chemical fundamentals of the chalcogens and their major compounds the initial part of the book includes a systematic description of the MCh solids on the basis of the Periodic Table in terms of their structures and key properties This is followed by a general discussion on the electrochemistry of chalcogen species and the principles underlying the electrochemical formation of inorganic compounds alloys The core of the book offers an insight into available experimental results and inferences regarding the electrochemical preparation and microstructural control of conventional and novel MCh structures It also aims to survey their photoelectrochemistry both from a material oriented point of view and as connected to

specific processes such as photocatalysis and solar energy conversion Finally the book illustrates the relevance of MCh materials to various applications of electrochemical interest such as electro catalysis in fuel cells energy storage with intercalation electrodes and ion sensing Amorphous Chalcogenides Victor I. Mikla, Victor V. Mikla, 2011-09-23 Amorphous chalcogenide semiconductors have commercial value and have many uses such as image formation including x rays and high definition TV pick up tubes They have widespread application in the microelectronics industry and amorphous metallic alloys also have useful magnetic properties. This book focuses on their imaging applications and related properties. It examines the two groups of amorphous semiconductors that are of most commercial interest 1 the chalcogenide glasses2 the tetrahedrally bonded amorphous solids such as amorphous silicon germanium and related alloysBoth of these groups may be conveniently prepared in the form of thin thick films which is of considerable importance in applications where large area coverage of flat or curved surfaces of rigid or flexible materials is desirable such as in photovoltaic arrays X Ray sensors display screens and photocopier drums Provides information on the amorphous semiconductors that are of most commercial interest Presents the history of the commercial applications the latest developments and future possibilities Amorphous Chalcogenide Semiconductors and Related Materials Keiji Tanaka, Koichi Shimakawa, 2011-05-26 Taking the reader from basic principles to applications and setting out the theoretical background needed to understand the technology involved here is an up to date treatment of this non crystalline class of materials which have numerous applications **Metastable States in Amorphous** Chalcogenide Semiconductors Victor I. Mikla, Victor V. Mikla, 2009-12-24 This book presents experimental results on the structural and electronic metastable states in Se rich chalcogenides Coverage includes states in the mobility gap structural transformation photocrystallization and many potential related applications Semiconducting Chalcogenide Glass II Robert Fairman, Boris Ushkov, 2004-12-17 Chalcogenide glass is made up of many elements from the Chalcogenide group The glass is transparent to infrared light and is useful as a semiconductor in many electronic devices For example chalcogenide glass fibers are a component of devices used to perform laser surgery. The properties of chalcogenide glass result not only from their chemical composition and atomic structure but also from the impact of numerous external factors A comprehensive survey is presented of the properties of chalcogenide glass under various external impacts Practical recommendations are presented for a wide range of applications Part II is the second part of a three volume work within the Semiconductors and Semimetals series The first collective monograph written by Eastern European scientists on the electrical and optical properties of chalcogenide vitreous semiconductors CVS Contributions by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides objective evidence and discussion by authors from opposing positions Recent advances in heavily doped plasmonic copper chalcogenides: from synthesis to biological application Qiulian Mao, Jicun Ma, Mei Chen, Shiying Lin, Noman Razzaq, Jiabin Cui, 2023-05-26 Copper based chalcogenide compounds have emerged as alternative materials to Cd or Pb based traditional semiconductors and have drawn significant attention

Compared with widely reported semiconductors copper chalcogenide nanocrystals NCs with abundant copper defects and vacancies present p type features Additionally the migration of free hole carriers in copper based chalcogenide NCs produced a metal like local surface plasmon resonance LSPR effect In this review we focused on the plasmonic copper chalcogenide NCs achieved through a heavily doped strategy The copper sulfur compounds with versatile atomic ratios and complex crystal structures exhibit rich electrical optical and magnetic properties making them highly promising for a broad range of applications from energy conversion to biomedical fields Therefore our main focus is on the classification of copper chalcogenide synthesis strategies theoretical studies of doping doping strategies and biological applications We aim to analyze the trends of copper based chalcogenide nanomaterials for clinical applications by summarizing previous studies and presenting designs and concepts in a brief manner Chalcogenide-Based Nanomaterials as Photocatalysts Mohammad Mansoob Khan, 2021-04-07 Chalcogenide Based Nanomaterials as Photocatalysts deals with the different types of chalcogenide based photocatalytic reactions covering the fundamental concepts of photocatalytic reactions involving chalcogenides for a range of energy and environmental applications Sections focus on nanostructure control synthesis methods activity enhancement strategies environmental applications and perspectives of chalcogenide based nanomaterials The book offers guidelines for designing new chalcogenide based nanoscale photocatalysts at low cost and high efficiency for efficient utilization of solar energy in the areas of energy production and environment remediation Provides information on the development of novel chalcogenide based nanomaterials Outlines the fundamentals of chalcogenides based photocatalysis Includes techniques for heterogeneous catalysis based on chalcogenide based nanomaterials Lead Chalcogenides D. Khokhlov, 2002-11-15 Lead Chalcogenides remain one of the basic materials of modern infrared optoelectronics. This volume presents the roperties 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 appraoches for band structure and impurity state calculations are reviewed **Springer Handbook of Semiconductor Devices** Massimo Rudan, Rossella Brunetti, Susanna Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook's chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods

ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook *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

Metal-Chalcogenide Nanocomposites Mohammad Ehtisham Khan, Jeenat Aslam, 2023-11-19 Metal chalcogenides have exceptional properties and can be used for electronic devices environmental monitoring and sensing applications for energy storage as electrode materials in fuel cells membranes and for photocatalytic degradation of environmental pollutants in the field of waste water treatment applications Metal Chalcogenide Nanocomposites Fundamentals Properties and Industrial Applications focuses on metal chalcogenide nanomaterials for environmental remediation and corrosion applications The chapters focuses on cost effective and facile fabrication approaches their growth mechanisms optical electrical and other important properties and their applications in a broad range of diverse fields such as photocatalysis photovoltaics hydrogen production lithium batteries energy storage anticorrosion and sensor devices The book will be an important information source for both material scientists and engineers who want to create the next generation of products and devices for energy and environmental applications Covers fabrication standard characterization photocatalytic mechanisms and environmentally sustainable fabrication methods Applications covered include environmental electronics oil gas water treatment sensing and many more Includes challenges and future opportunities which are discussed in detail Introduction to Semiconductors Peter Sutter, 2025-08-05 This textbook provides a new perspective on the classic topic of Semiconductor Materials and Devices It aims at undergraduate and beginning graduate students in the physical sciences and in engineering This book combines two unique aspects i Making quantum mechanical concepts broadly accessible Rather than avoiding fundamental concepts such as electronic band structure and phonons as is the case in the established texts on semiconductors the book embraces and incorporates them as key building blocks While conceptually sound and rigorous this textbook avoids unnecessary detail to provide students with a solid understanding of key concepts while enabling rapid progress toward the learning goals ii Extensive examples sourced from contemporary research Advanced topics from the current literature past

10 years are included as natural extensions to each chapter of the book These contemporary examples broaden the students knowledge beyond the typical content of an introductory textbook provide relevant literature references and encourage further reading and self study In this way the extensions help educate the students for careers in the post silicon era Provides a concise introduction to semiconductor materials and devices accessible to students of varying backgrounds Makes extensive use of current real examples to facilitate understanding and motivate further reading Prepares students for careers in semiconductor research and development device design and manufacturing State-of-the-Art Program on Compound Semiconductors: (SOTAPOCS XLII) and Processes at the Compound-Semiconductor/Solution Interface P. C. Chang, 2005

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 **Amorphous Semiconductors** Kazuo Morigaki, Sandor Kugler, Koichi Shimakawa, 2016-12-29 Amorphous semiconductors are subtances in the amorphous solid state that have the properties of a semiconductor and which are either covalent or tetrahedrally bonded amorphous semiconductors or chelcogenide glasses Developed from both a theoretical and experimental viewpoint Deals with amongst others preparation techniques structural optical and electronic properties and light induced phenomena Explores different types of amorphous semiconductors including amorphous silicon amorphous semiconducting oxides and chalcogenide glasses Applications include solar cells thin film transistors sensors optical memory devices and flat screen devices including Chalcogenide Xinyu Liu, Sanghoon Lee, Jacek K. Furdyna, Tengfei Luo, Yong Zhang, 2019-11-14 Chalcogenide televisions From 3D to 2D and Beyond reviews graphene like 2D chalcogenide systems that include topological insulators interesting thermoelectric structures and structures that exhibit a host of spin phenomena that are unique to 2D and lower dimensional geometries The book describes state of the art materials in growth and fabrication magnetic electronic and optical characterization as well as the experimental and theoretical aspects of this family of materials Bulk chalcogenides chalcogenide films their heterostructures and low dimensional chalcogenide based quantum structures are discussed Particular attention is paid to findings that are relevant to the continued search for new physical phenomena and new functionalities Finally the book covers the enormous opportunities that have emerged as it has become possible to achieve lower dimensional chalcogenide structures by epitaxial techniques Provides readers with foundational information on the

materials growth fabrication magnetic electronic and optical characterization of chalcogenide materials Discusses not only bulk chalcogenides and chalcogenide thin films but also two dimensional chalcogenide materials systems Reviews the most important applications in optoelectronics photovoltaics and thermoelectrics

Chalcogenide Abhay Kumar Singh, Tien-Chien Jen, 2021-04-26 This is introductory book for researchers scientists and students in the area of organic and inorganic composite materials This book has addressed timely the innovative topic chalcogenide multiwalled carbon nanotubes and chalcogenide bilayer graphene composite materials under a glassy regime This book will give a clear idea on the concepts of the newly established composite materials area by providing interpretations of inside physio chemical mechanism The remarkable landmark innovations related to this newly introduced research field are included in this book Additionally the possible futuristic applications in the area of nanoelectronics optoelectronics biomedical etc are also addressed

Unveiling the Power of Verbal Art: An Emotional Sojourn through Semiconductors Chalcogenides

In a global inundated with displays and the cacophony of quick communication, the profound energy and mental resonance of verbal art frequently diminish in to obscurity, eclipsed by the constant barrage of noise and distractions. However, set within the musical pages of **Semiconductors Chalcogenides**, a captivating function of literary beauty that impulses with natural emotions, lies an remarkable journey waiting to be embarked upon. Written with a virtuoso wordsmith, this mesmerizing opus manuals viewers on a psychological odyssey, delicately exposing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main styles, dissect its charming publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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