

Wide Gap Chalcogenides

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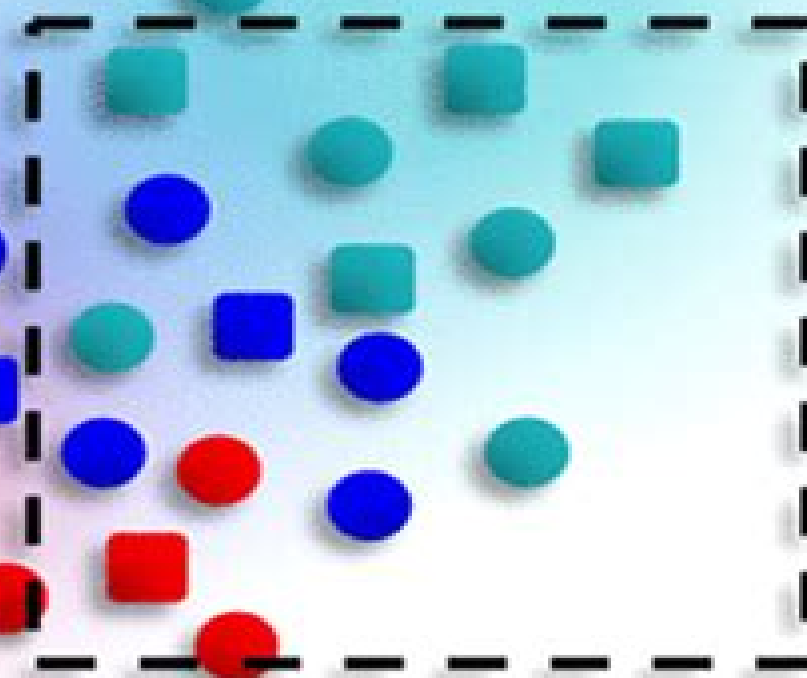
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Semiconductors Chalcogenides

Robert Fairman, Boris Ushkov



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 biomedical applications

Amorphous Chalcogenide Semiconductors and Related Materials Keiji Tanaka, Koichi Shimakawa, 2011-05-24 Amorphous Chalcogenide Semiconductors and Glasses describes developments in the science and technology of this class of materials This book offers an up to date treatment of chalcogenide glasses and amorphous semiconductors from basic principles to applications while providing the reader with the necessary theoretical background to understanding the material properties technology of this class of materials This book offers an up to date treatment of chalcogenide glasses and amorphous semiconductors from basic principles to applications while providing the reader with the necessary theoretical background to understanding the material properties Chalcogenides form a special class of materials which have one or more of the elements from the chalcogen group Group VI in the Periodic Table S Se or Te as a constituent the chalcogen is mixed with other elements to form various new compounds and alloys Chalcogenides are noncrystalline solids because their structure is amorphous or glassy Such structures have totally different properties than crystalline solids Chalcogenide glasses have a number of very interesting and useful properties which have been already exploited in the commercialization of new devices

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

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 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 Chalcogenide Glass III* 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 *Semiconducting Chalcogenide Glass III Applications of Chalcogenide Glasses* is a comprehensive overview of designs of various chalcogenide glass devices are presented including switches phase inverters voltage stabilizers oscillators indicators and display control circuits memory devices and sensors A special chapter is devoted to chalcogenide glass applications in optical fibers This collective monograph is intended to survey the current state of chalcogenide glass applications to facilitate further development The first collective monograph written by Eastern European scientists covering electrical and optical properties of chalcogenide vitreous semiconductors *CVS Contributions* by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides evidence and discussion by authors from opposing positions *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.

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.

Chalcogenide Nanophotonics Tun Cao, Ying Su, Yinghan Li, Hongze Gao, 2026-01-27 Comprehensive summary of Chalcogenide Nanophotonics reviewing basic principles, synthesis methods, and cutting edge applications. Chalcogenide Nanophotonics offers an in depth exploration of these remarkable materials covering their fundamental physics, synthesis methods, optical phenomena, and cutting edge applications in modern photonics. A distinctive feature of this book is its interdisciplinary approach weaving together materials science, condensed matter physics, and photonic engineering. Each chapter integrates theoretical frameworks with practical case studies such as phase change memory devices leveraging GeSbTe alloys or GST based metasurfaces for dynamic color displays to illustrate the symbiotic relationship between material design and device performance. The inclusion of recent breakthroughs such as van der Waals epitaxy for low defect heterostructures and UV lithography for scalable metasurfaces ensures relevance to both academic and industrial audiences. Chalcogenide Nanophotonics includes information on electronic band structure and material properties elucidating how chemical bonding and lattice dynamics govern their optoelectronic behavior. Intricate mechanisms of thin film growth offering insights into epitaxial techniques such as chemical vapor deposition and pulsed laser deposition. Properties of chalcogenides covering dielectric functions, Raman spectroscopy, and emission mechanisms. Chalcogenide based photonic crystals and metamaterials showcasing their potential for beam steering, perfect absorption, and chiral light manipulation. Future challenges and

opportunities from machine learning driven material discovery to monolithic 3D integration for quantum photonics Chalcogenide Nanophotonics serves as both a roadmap and an invitation to researchers engineers and students alike encouraging them to harness the infinite potential of chalcogenides **Semiconducting Chalcogenide Glass II** Robert Fairman, Boris Ushkov, 2005-01-11 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

Comprehensive Semiconductor Science and Technology, 2011-01-28 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 Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections 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 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 extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts

Semiconducting Chalcogenide Glass I Robert Fairman, Boris Ushkov, 2004-05-10 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 This book is a comprehensive survey of the current state of science and technology in the field of chalcogenide semiconductor glasses

While the majority of the book deals with properties of chalcogenide glass chapters also deal with industrial applications synthesis and purification of chalcogenide glass and glass structural modification The first individual or collective monograph written by Eastern European scientists known to Western readers regarding structural and chemical changes in chalcogenide vitreous semiconductors CVS Chapters written by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides evidence and discussion for problems discussed by authors from opposing positions

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

Comprehensive Inorganic Chemistry II, 2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today s inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available

from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973 **Handbook on Semiconductors** Trevor Simpson Moss, Minko Balkanski, 1980 V 1 t 86 00217 Band theory and transport properties editor William Paul v 2 t 86 00284 Optical properties of solids editor Minko Balkanski v 3 t 86 00218 Materials properties and preparation editor Seymour P Keller v 4 t 86 00219 1985 Device physics editor Cyril Hilsum

Amorphous Chalcogenides Victor I. Mikla, Victor V. Mikla, 2011-09-26 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 the chalcogenide glasses the tetrahedrally bonded amorphous solids such as amorphous silicon germanium and related alloys Both 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 Chalcogenides Rong Ping

Wang, 2014-03-05 This book provides a comprehensive overview of the chalcogenide glass science and various applications based on the glasses It starts with a review on the glass forming ability of various systems followed by a discussion on the structural and physical properties of various chalcogenide glasses and their application in integrated optics The chap Chalcogenide Xinyu Liu, Sanghoon Lee, Jacek K. Furdyna, Tengfei Luo, Yong Zhang, 2019-11-14 Chalcogenide 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 *Electronic Materials* Yuriy M. Poplavko,2018-11-23 Mechanical and thermal properties are reviewed and electrical and magnetic properties are emphasized Basics of symmetry and internal structure of crystals and the main properties of metals dielectrics semiconductors and magnetic materials are discussed The theory and modern experimental data are presented as well as the specifications of materials that are necessary for practical application in electronics The modern state of research in nanophysics of metals magnetic materials dielectrics and semiconductors is taken into account with particular attention to the influence of structure on the physical properties of nano materials The book uses simplified mathematical treatment of theories while emphasis is placed on the basic concepts of physical phenomena in electronic materials Most chapters are devoted to the advanced scientific and technological problems of electronic materials in addition some new insights into theoretical facts relevant to technical devices are presented *Electronic Materials* is an essential reference for newcomers to the field of electronics providing a fundamental understanding of important basic and advanced concepts in electronic materials science Provides important overview of the fundamentals of electronic materials properties significant for device applications along with advanced and applied concepts essential to those working in the field of electronics Takes a simplified and mathematical approach to theories essential to the understanding of electronic materials and summarizes important takeaways at the end of each chapter Interweaves modern experimental data and research in topics such as nanophysics nanomaterials and dielectrics Semiconductors ,2007

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Semiconductors Chalcogenides Introduction

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