

**OPTOELECTRONIC
PROPERTIES of
SEMICONDUCTORS
and SUPERLATTICES**

M.O. Manasreh, *series editor*

Volume 18

**LEAD CHALCOGENIDES
PHYSICS AND APPLICATIONS**

Edited by

Dmitriy Khokhlov



CRC Press
Taylor & Francis Group

Semiconductors Chalcogenides

Peter Sutter



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, 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

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

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

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

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

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

State-of-the-Art Program on Compound Semiconductors : (SOTAPOCS XLII) and Processes at the Compound-Semiconductor/Solution Interface P. C. Chang, 2005

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

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web apr 11 2011 the car s battery and through the inverter converts the alternating current control signals into the high current high voltage energy needed to commutate or turn the motor the igbt is an ideal motor inverter switch for 35 kw to 85 kw ev motors due to its high efficiency and fast switching the more efficient the

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