



SEMICONDUCTORS AND SEMIMETALS

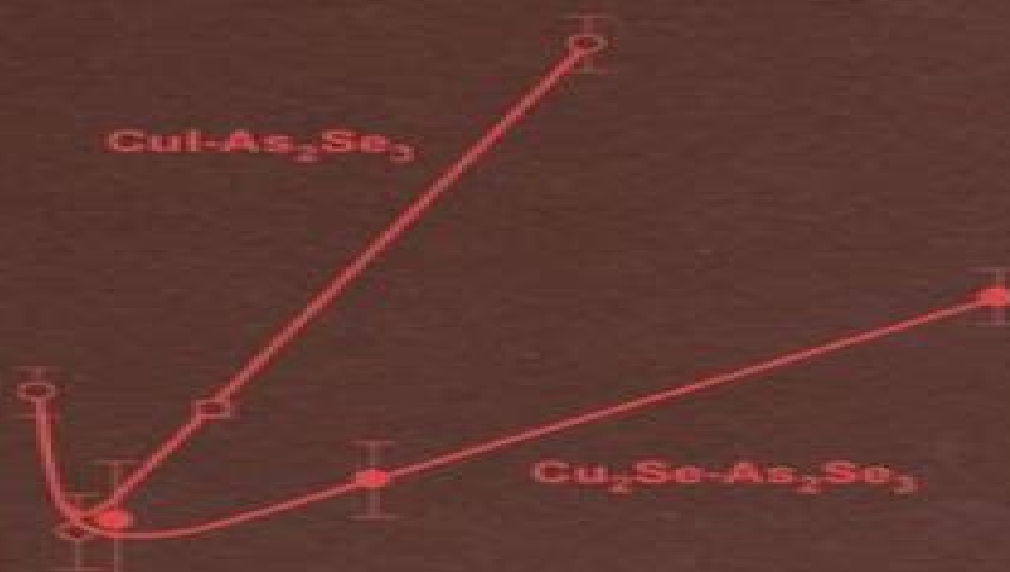
TREATISE EDITORS: ROBERT K. WILLARDSON AND EICKE R. WEBER

VOLUME 80

SEMICONDUCTING CHALCOGENIDE GLASS III

APPLICATIONS OF CHALCOGENIDE GLASSES

ROBERT FAIRMAN
BORIS USHKOV



Semiconducting Chalcogenide Glass Iii Applications Of Chalcogenide Glasses

Jianjun Gao



Semiconducting Chalcogenide Glass Iii Applications Of Chalcogenide Glasses:

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

Semiconductors and Semimetals Robert K. Willardson, Albert C. Beer, 1966

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

Semiconducting Chalcogenide Glass III Robert Fairman, Boris Ushkov, 2005-04-01 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 Chalcogenide Glasses J-L Adam,X.

Zhang,2014-02-14 The unique properties and functionalities of chalcogenide glasses make them promising materials for photonic applications Chalcogenide glasses are transparent from the visible to the near infrared region and can be moulded into lenses or drawn into fibres They have useful commercial applications as components for lenses for infrared cameras and chalcogenide glass fibres and optical components are used in waveguides for use with lasers for optical switching chemical and temperature sensing and phase change memories Chalcogenide glasses comprehensively reviews the latest technological advances in this field and the industrial applications of the technology Part one outlines the preparation methods and properties of chalcogenide glasses including the thermal properties structure and optical properties before going on to discuss mean coordination and topological constraints in chalcogenide network glasses and the photo induced phenomena in chalcogenide glasses This section also covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Part two explores the applications of chalcogenide glasses Topics discussed include rare earth doped chalcogenide glass for lasers and amplifiers the applications of chalcogenide glasses for infrared sensing microstructured optical fibres for infrared applications and chalcogenide glass waveguide devices for all optical signal processing This section also discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories The book concludes with an overview of chalcogenide glasses as electrolytes for batteries Chalcogenide glasses comprehensively reviews the latest technological advances and applications of chalcogenide glasses and is an essential text for academics materials scientists and electrical engineers working in the photonics and optoelectronics industry Outlines preparation methods and properties and explores applications of chalcogenide glasses Covers the ionic conductivity and physical aging of chalcogenide glasses deposition techniques for chalcogenide thin films and transparent chalcogenide glass ceramics Discusses the control of light on the nanoscale with chalcogenide thin films chalcogenide glass resists for lithography and chalcogenide for phase change optical and electrical memories *Semiconductor Nanowires II: Properties and Applications* ,2016-01-11 Semiconductor Nanowires Part B and Volume 94 in the Semiconductor and Semimetals series focuses on semiconductor nanowires Includes experts contributors who review the most important recent literature Contains a broad view including examination of semiconductor nanowires

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

Advances in Photovoltaics: Part 3, 2014-12-01 This volume is the third of a set of seven on the topic of photovoltaics Solar cell related technologies covered here include ribbon silicon heterojunction crystalline silicon wafer equivalent crystalline silicon and other advanced silicon solar cell structures and processes Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry

Semiconductor Nanowires I: Growth and Theory, 2015-11-26 Semiconductor Nanowires Part A Number 93 in the Semiconductor and Semimetals series focuses on semiconductor nanowires Contains comments from leading contributors in the field semiconductor nanowires Provides reviews of the most important recent literature Presents a broad

view including an examination of semiconductor nanowires Comprises up to date advancements in the technological development of nanowire devices and systems and is comprehensive enough to be used as a reference book on nanowires as well as a graduate student text book

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

Advances in Photovoltaics: Part 4,2015-06-25 Advances in Photovoltaics Part Four provides valuable information on the challenges faced during the transformation of our energy supply system to more efficient renewable energies The volume discusses the topic from a global perspective presenting the latest information on photovoltaics a cornerstone technology It covers all aspects of this important semiconductor technology reflecting on the tremendous and dynamic advances that have been made on this topic since 1975 when the first book on solar cells written by Harold J Hovel of IBM was published as volume 11 in the now famous series on Semiconductors and Semimetals Readers will gain a behind the scenes look at the continuous and rapid scientific development that leads to the necessary price and cost reductions in global industrial mass production Written by leading internationally known experts on his topic Provides an in depth overview of the current status and perspectives of thin film PV technologies Discusses the challenges faced during the transformation of our energy supply system to more efficient renewable energies Delves deep into photovoltaics a cornerstone technolog

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

Defects in Semiconductors,2015-06-08 This volume number 91 in the Semiconductor and Semimetals series focuses on defects in semiconductors Defects in semiconductors help to explain several phenomena from diffusion to getter and to draw theories on materials behavior in response to electrical or mechanical fields The volume includes chapters focusing specifically on electron and proton irradiation of silicon point defects in zinc oxide and gallium nitride ion

implantation defects and shallow junctions in silicon and germanium and much more It will help support students and scientists in their experimental and theoretical paths Expert contributors Reviews of the most important recent literature Clear illustrations A broad view including examination of defects in different semiconductors Advances in Photovoltaics: Part 2 ,2013-10-17 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry This volume is the second of a set of seven on the topic of photovoltaics Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry *Advances in Photovoltaics: Part 1* Gerhard P. Willeke,Eicke R. Weber,2012-10-03 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field **Quantum Efficiency in Complex Systems, Part I** ,2010-12-14 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Advances in Semiconductor Lasers James J Coleman,A. Catrina Bryce,Chennupati Jagadish,2012-05-02 Since its inception in 1966 the

series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series 2D Materials ,2016-06-24 2D Materials contains the latest information on the current frontier of nanotechnology the thinnest form of materials to ever occur in nature A little over 10 years ago this was a completely unknown area not thought to exist However since then graphene has been isolated and acclaimed and a whole other class of atomically thin materials dominated by surface effects and showing completely unexpected and extraordinary properties has been created This book is ideal for a variety of readers including those seeking a high level overview or a very detailed and critical analysis No nanotechnologist can currently overlook this new class of materials Presents one of the first detailed books on this subject of nanotechnology Contains contributions from a great line up of authoritative contributors that bring together theory and experiments Ideal for a variety of readers including those seeking a high level overview or a very detailed and critical analysis Quantum Efficiency in Complex Systems, Part II: From Molecular Aggregates to Organic Solar Cells ,2011-11-23 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer Series as it is widely known has succeeded in publishing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry

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