



SEMICONDUCTORS AND SEMIMETALS

TREATISE EDITORS: ROBERT K. WILLARDSON AND ECKE H. WELSH

VOLUME 79

# SEMICONDUCTING CHALCOGENIDE GLASS II

PROPERTIES OF CHALCOGENIDE GLASSES

ROBERT FAIRMAN

BORIS USHKOV



# Semiconducting Chalcogenide Glass Ii Properties Of Chalcogenide Glasses

**Yan Bai**



## **Semiconducting Chalcogenide Glass II Properties Of Chalcogenide Glasses:**

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

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opposing positions      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

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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

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**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      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

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**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      **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      **Physics and Applications of Non-Crystalline Semiconductors in Optoelectronics** A. Andriesh,M. Bertolotti,2012-12-06 The Workshop on Physics and Application of Non crystalline Semiconductors in Optoelectronics was held from 15 to 17 October 1996 in Chisinau republic of Moldova and was devoted to the problems of non crystalline semiconducting materials The reports covered two main topics theoretical basis of physics of non crystalline materials and experimental results In the framework of these major topics there were treated many subjects concerning the physics of non crystalline semiconductors and their specific application optical properties of non crystalline semiconductors doping of glassy semiconductors and photoinduced effects in chalcogenide glasses and their application for practical purposes methods for investigation of the structure in non crystalline semiconductors new glassy materials for IR transmittance and optoelectronics Reports and communications were presented on various aspects of the theory new physical principles studies of the atomic structure search and development of optoelectronics devices Special attention was paid to the actual subject of photoinduced transformations and its applications Experimental investigations covered a rather wide spectrum of materials and physical phenomena As a novel item it is worth to mention the study of nonlinear optical effects in amorphous semiconducting films The third order optical nonlinearities fast photoinduced optical absorption and refraction acousto optic effects recently discovered in non crystalline semiconductors could potentially be utilised for optical signal processing The important problems of photoinduced structural transformations and related phenomena which are very attractive and actual both from the scientific and practical points of view received much attention in discussions at the conference      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

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**Spintronics** Tomasz Dietl, David D. Awschalom, Maria Kaminska, Hideo Ohno, 2009-02-12 This new volume focuses on a new exciting field of research Spintronics the area also known as spin based electronics The ultimate aim of researchers in this area is to develop new devices that exploit the spin of an electron instead of or in addition to its electronic charge In recent years many groups worldwide have devoted huge efforts to research of spintronic materials from their technology through characterization to modeling The resultant explosion of papers in this field and the solid scientific results achieved justify the publication of this volume Its goal is to summarize the current level of understanding and to highlight some key results and milestones that have been achieved to date Semiconductor spintronics is expected to lead to a new generation of transistors lasers and integrated magnetic sensors that can be used to create ultra low power high speed memory logic and photonic devices In addition development of novel devices such as spin polarized light emitters spin field effect transistors integrated sensors and high temperature electronics is anticipated Spintronics has emerged as one of the fastest growing areas of research This text presents an in depth examination of the most recent technological spintronic developments Includes contributions from leading scholars and industry experts

**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     Physics of Semiconductor Devices Vikram Kumar, Prasanta Kumar Basu, 2002

## The Enigmatic Realm of **Semiconducting Chalcogenide Glass Ii Properties Of Chalcogenide Glasses**: Unleashing the Language is Inner Magic

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