

Nonlinear Optics in Semiconductors II

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SEMICONDUCTORS AND SEMIMETALS VOLUME 39

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Noncrystalline Semiconductors Volume Ii

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Noncrystalline Semiconductors Volume II:

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. **Circuit Design Techniques for Non-Crystalline Semiconductors** Sanjiv Sambandan, 2012-10-16 Written for students and professionals within the fields of Materials Science and Engineering, Electronics Engineering and Applied Physics, this reference provides a systematic means to synthesize circuits with disordered semiconductor field effect transistors (DS-FETs) and explanation of the issues involved. It offers examples on how self-assembly structural and functional can be used as a powerful tool in circuit synthesis and provides starting threads for new and future research. The first book to focus on disordered semiconductors, the text covers theory, materials, techniques and applications as well as offer practical solutions for semiconductor use in devices. *Noncrystalline Semiconductors* Michael Pollak, 1987 **Amorphous Silicon and Related Materials** Hellmut Fritzsche, 1989-01-01 This book presents the most recent important ideas and developments in the field of Hydrogenated Amorphous Silicon and related materials. Each contribution is authored by an outstanding expert in that particular area. **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

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

Space Microelectronics Volume 2: Integrated Circuit Design for Space Applications Anatoly Belous, Vitali Saladukha, Siarhei Shvedau, 2017-07-31 This invaluable second volume of a two volume set is filled with details about the integrated circuit design for space applications Various considerations for the selection and application of electronic components for designing spacecraft are discussed The basic constructions of submicron transistors and Schottky diodes during the technological process of production are explored This book provides details on the energy consumption minimization methods for microelectronic devices Specific topics include Features and physical mechanisms of the effect of space radiation on all the main classes of microcircuits including peculiarities of radiation impact on submicron integrated circuits Special design technology and schematic methods of increasing the resistance to various types of space radiation Recommendations for choosing research equipment and methods for irradiating various samples Microcircuit designers on the composition of test elements for the study of the effect of radiation Microprocessors circuit boards logic microcircuits digital analog digital analog microcircuits manufactured in various technologies bipolar CMOS BiCMOS SOI Problems involved with designing high speed microelectronic devices and systems based on SOS and SOI structures System on chip and system in package and methods for rejection of silicon microcircuits with hidden defects during mass production

Clusters And Fullerenes - Proceedings Of The Adriatico Research Conference V Kumar, Erio Tosatti, T P Martin, 1993-02-05 In recent years very active research has been going on to understand the physics and chemistry of

clusters an intermediate state of matter between atoms and solids Great excitement has been added to these efforts with the recent discovery of a new form of carbon the fullerene and its aggregates and subsequent observations of superconductivity with alkali doping This volume critically reviews the recent progress made in the area of clusters and discusses the new problems opened up with the ongoing developments in fullerenes **Noncrystalline Semiconductors**, 1987

Non-Crystalline Chalcogenides M.A. Popescu, 2006-04-11 The earliest experimental data on an oxygen free glass have been published by Schulz Sellack in 1870 1 Later on in 1902 Wood 2 as well as Meier in 1910 3 carried out the first researches on the optical properties of vitreous selenium The interest in the glasses that exhibit transparency in the infrared region of the optical spectrum rose at the beginning of the twentieth century Firstly were investigated the heavy metal oxides and the transparency limit was extended from the case of the classical oxide glasses up to wavelength In order to extend this limit above the scientists tried the chemical compositions based on the elements of the sixth group of the Periodic Table the chalcogens sulphur selenium and tellurium The systematic research in the field of glasses based on chalcogens called chalcogenide glasses started at the middle of our century In 1950 Frerichs 4 investigated the glass and published the paper New optical glasses transparent in infrared up to 12 Several years later he started the study of the selenium glass and prepared several binary glasses with sulphur 5 Glaze and co workers 6 developed in 1957 the first method for the preparation of the glass at the industrial scale while Winter Klein 7 published reports on numerous chalcogenides prepared in the vitreous state *Properties and Applications of Amorphous Materials* M.F. Thorpe, L. Tichý, 2012-12-06 The aim of this NATO ASI has been to present an up to date overview of current areas of interest in amorphous materials with particular emphasis on electronic properties and device applications In order to limit the material to a manageable amount the meeting was concerned almost exclusively with semiconducting materials This volume should be regarded as a follow on to the NATO ASI held in Sozopol Bulgaria in 1996 and published as Amorphous Insulators and Semiconductors edited by M F Thorpe and M 1 Mitkova Kluwer Academic Publishers NATO ASI series 3 High Technology Vol 23 The lectures and seminars fill the gap between graduate courses and research seminars The lecturers and seminar speakers were chosen as experts in their respective areas and the lectures and seminars that were given are presented in this volume During the first week of the meeting an emphasis was placed on introductory lectures while the second week focused more on research seminars There were two very good poster sessions that generated a lot of discussion but these are not reproduced in this volume as the editors wanted to have only larger contributions to make the proceedings more coherent **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 Scientific and Technical Aerospace Reports ,1973 **STAR** ,1973

Electronic Properties of Materials D.L. Grigsby,D.H. Johnson,M. Neuberger,S.J. Welles,2013-11-21 **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 **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 *Research in Progress* ,1973

Excitonic and Photonic Processes in Materials Jai Singh,Richard T. Williams,2014-07-29 This book is expected to present state of the art understanding of a selection of excitonic and photonic processes in useful materials from semiconductors to insulators to metal insulator nanocomposites both inorganic and organic Among the featured applications are components of solar cells detectors light emitting devices scintillators and materials with novel optical properties Excitonic properties are particularly important in organic photovoltaics and light emitting devices as also in questions of the ultimate resolution and efficiency of new generation scintillators for medical diagnostics border security and nuclear non proliferation Novel photonic and optoelectronic applications benefit from new material combinations and structures to be discussed

Electronic Processes in Non-Crystalline Materials Sir Nevill Francis Mott,Edward A Davis,2012-02-02 A reissue of a classic Oxford text The book sets out theoretical concepts and makes comparisons with experiments for a wide variety of phenomena in non crystalline materials

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