

# Crystalline vs Noncrystalline Solids

Feature	Crystalline Solids	Non-Crystalline Solids
Atomic Arrangement	Highly ordered, long-range order, repeating pattern (crystal lattice)	Random, disordered, short-range order only
Melting Point	Sharp, definite melting point	Gradual softening over a range of temperatures
Anisotropy	Anisotropic (properties vary with direction)	Isotropic (properties are the same in all directions)
Heat of Fusion	Definite heat of fusion	No definite heat of fusion
True Solids?	True solids	Pseudo solids or supercooled liquids
Energy State	Lower energy state (more stable)	Higher energy state (less stable)
Examples	Diamond, salt, sugar, quartz, metals (copper, aluminum)	Glass, plastic, rubber, amorphous silicon
Formation	Slow cooling allows crystal formation	Rapid cooling prevents crystal formation
Cleavage	Tend to cleave along specific planes	Do not cleave along specific planes, fracture irregularly

# Noncrystalline Chalcogenicides

**Hari Singh Nalwa**



## **Noncrystalline Chalcogenides:**

**Non-Crystalline Chalcogenides** M.A. Popescu, 2001-11-30 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 Non-crystalline Chalcogenides Mihai Popescu, 2002

**Microparacrystalline Model for Medium-Range Order in Non-Crystalline Chalcogenides** M. Popescu, H. Bradaczek, NATIONAL INST OF MATERIALS PHYSICS BUCHAREST (Romania), 2001 The medium range order in disordered chalcogenides has been explained by the existence of reminiscent crystal like configurations with distorted arrangement of the atoms Using the paracrystalline theory two parameters have been defined for the characterization of the MRO in glass paracrystallite thickness and paracrystallite distortion **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 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 *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 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 *World Scientific Reference Of Amorphous Materials, The: Structure, Properties, Modeling And Main Applications (In 3 Volumes)* ,2020-12-28 Amorphous solids including glassy and non crystalline solids are ubiquitous since the vast majority of solids naturally occurring in our world are amorphous Although the field is diverse and complex this three volume set covers the vast majority of the important concepts needed to understand these materials and their principal practical applications One volume discusses the most important subset of amorphous insulators namely oxide glasses the other two volumes discuss the most important subsets of amorphous semiconductors namely tetrahedrally coordinated amorphous semiconductors and amorphous and glassy chalcogenides Together these three volumes provide a comprehensive set of theoretical concepts and practical information needed to become conversant in the field of amorphous materials They are suitable for advanced graduate students postdoctoral research associates and researchers wishing to change fields or sub fields The topics covered in these three volumes include 1 concepts for understanding the structures of amorphous materials 2 techniques to characterize the structural electronic and optical properties of amorphous materials 3 the roles of defects in affecting the electronic and optical properties of amorphous materials and 4 the concepts for understanding practical devices and other applications of amorphous materials Applications discussed in these volumes include transistors solar cells displays bolometers fibers non volatile memories vidicons photoresists and optical disks **Proceedings of the Sixth International Symposium on Dielectric Materials and Applications (ISyDMA'6)** Ashok Vaseashta,Mohammed Essaid Achour,Mustapha Mabrouki,Didier Fasquelle,Amina Tachafine,2022-09-25 This book addresses to the materials scientists physicists chemists biologists and electrical engineers engaged in fundamental and applied research or technical investigations on such materials The goal of the International Symposium on Dielectric Materials and Applications conference series is to provide an innovative platform for key researchers scientists from all over the world to exchange ideas and to hold wide ranging discussions on recent developments in dielectric materials and their new and emerging applications The aim of ISyDMA meeting is to provide an international forum for the discussion of current research on high k dielectric electrical insulation dielectric phenomena and topics related to emerging applications **Physics of Non-crystalline Solids** J. Zarzycki,Jerzy Zarzycki,1982 *Chalcogenide Alloys for Reconfigurable Electronics: Volume 918* P. Craig Taylor,2006-10-11 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *The Structure of Non-crystalline Materials* P. H. Gaskell,1977 *Photo-Induced Metastability in Amorphous Semiconductors* Alexander V. Kolobov,2003-08-29 A review summarising the current state of research in the field bridging the gaps in the existing literature All the chapters are written by world leaders in research and development and

guide readers through the details of photo induced metastability and the results of the latest experiments and simulations not found in standard monographs on this topic A useful reference not only for graduates but also for scientific and industrial researchers With a foreword of Kazunobu Tanaka *Physics Briefs* ,1989 Locally Controlled Photonic Crystal Devices with Coupled Quantum Dots Andrei Faraon,2009 Conduction in Non-crystalline Materials Sir Nevill Francis Mott,1987 Introduces the theoretical aspects of conduction processes in an unusually wide range of non crystalline materials Simple up to date accounts **Nanoengineering: Fabrication, Properties, Optics, and Devices** ,2006 *Fundamental Problems of Optoelectronics and Microelectronics* ,2003 **Handbook of Advanced Electronic and Photonic Materials and Devices: Chalcogenide glasses and sol-gel materials** Hari Singh Nalwa,2001 Electronic and photonic materials discussed in this handbook are the key elements of continued scientific and technological advances in the 21st century The electronic and photonic materials comprising this handbook include semiconductors superconductors ferroelectrics liquid crystals conducting polymers organic and superconductors conductors nonlinear optical and optoelectronic materials electrochromic materials laser materials photoconductors photovoltaic and electroluminescent materials dielectric materials nanostructured materials supramolecular and self assemblies silicon and glasses photosynthetic and respiratory proteins etc etc Some of these materials have already been used and will be the most important components of the semiconductor and photonic industries computers internet information processing and storage telecommunications satellite communications integrated circuits photocopiers solar cells batteries light emitting diodes liquid crystal displays magneto optic memories audio and video systems recordable compact discs video cameras X ray technology color imaging printing flat panel displays optical waveguides cable televisions computer chips molecular sized transistors and switches as well as other emerging cutting edge technologies Electronic and photonic materials are expected to grow to a trillion dollar industry in the new millennium and will be the most dominating forces in the emerging new technologies in the fields of science and engineering This handbook is a unique source of the in depth knowledge of synthesis processing fabrication spectroscopy physical properties and applications of electronic and photonic materials covering everything for today s and developing future technologies This handbook consists of over one hundred state of the art review chapters written by more than 200 world leading experts from 25 different countries With more than 23 000 bibliographic citations and several thousands of figures tables photographs chemical structures and equations this handbook is an invaluable major reference source for scientists and students working in the field of materials science solid state physics chemistry electrical and optical engineering polymer science device engineering and computational engineering photophysics data storage and information technology and technocrats everyone who is involved in science and engineering of electronic and photonic materials Key Features This is the first handbook ever published on electronic and photonic materials 10 volumes summarize the advances in electronic and photonic materials made over past the two decades This handbook is a unique source of the in depth knowledge of synthesis

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