

THE STRUCTURE OF GLASS
Volume 8

PHASE-SEPARATION PHENOMENA IN GLASSES

PROCEEDINGS OF THE FIRST ALL-UNION SYMPOSIUM
ON PHASE-SEPARATION PHENOMENA IN GLASSES,
LENINGRAD, APRIL 16-18, 1968

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Senior Scientific Translator



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Phase Separation Phenomena In Glasses The Structure Of Glass Vol 9

A. Cooper



Phase Separation Phenomena In Glasses The Structure Of Glass Vol 9:

Phase-Separation Phenomena in Glasses / Likvatsionnye Yavleniya v Steklakh / Ликвационные Явления в Стеклах E. A. Porai-Koshits, 2012-12-06 The First All Union Symposium on Phase Separation Phenomena in Glasses was held in Lenin grad from April 16 to 18 1968 The symposium was organized by the Section of the structure of glass and the nature of the glassy state of the Scientific Council for the problem New Technical Materials and Coatings Based on Glass and Refractory Compounds of the State Committee for Science and Technology of the Council of Ministers of the USSR by the Scientific Council for the problem Physicochemical Principles of Production of New Heat Resistant Inorganic Materials of the Division of Physical Chemistry and Technology of Inorganic Materials Academy of Sciences of the USSR by the Leningrad regional board of the D 1 Mendeleev All Union Chemical Society and by the 1 V Grebenshchikov Institute of Silicate Chemistry Academy of Sciences of the USSR The present collection consists of the Proceedings of the Symposium and is No 3 in Vol 5 of the series The Glassy State published by the Academy of Sciences of the USSR since 1955 The book contains the results of theoretical and experimental investigations of phase separation of glasses into two glassy phases and of the influence of this submicroscopically heterogeneous structure on certain properties of glass Metastable phase separation in glasses was discovered about 10 years ago **Phase Separation in Glass** Oleg Vsevolodovich Mazurin, E. A. Porai-Koshits, N. S. Andreev, 1984 Phase Separation in Glass **Glastechnische Berichte**, 1992 Vols include Patentbericht *Handbook of Solid State Chemistry, 6 Volume Set* Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who's Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

Liquid Polymorphism, Volume 152 H. Eugene Stanley, 2013-04-22 The Advances in Chemical Physics series the cutting edge of research in chemical physics The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical authoritative evaluations of advances in every area of the discipline Filled with cutting edge research reported in a cohesive manner not found elsewhere in the literature each volume of the Advances in Chemical Physics series presents contributions from internationally renowned chemists and serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics This volume explores Electron Spin Resonance

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 in both traditional ceramics i e glass whitewares refractories and porcelain enamel and advanced ceramics Topics covered in
 the area of advanced ceramic include bioceramics nanomaterials composites solid oxide fuel cells mechanical properties and
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 Processing: Volume 172** James W. Fleming, 1990 The MRS Symposium Proceeding series is an internationally recognised
 reference suitable for researchers and practitioners **Polymer Blends and Composites** John A. Manson, 2012-12-06 The
 need for writing a monograph on polymer blends and composites became apparent during presentation of material on this
 subject to our advanced polymers class Although the flood of important research in this area in the past decade has resulted
 in many symposia edited collections of papers reviews contributions to scientific journals and patents apparently no
 organized presentation in book form has been forthcoming In a closely connected way another strong impetus for writing this
 monograph arose out of our research programs in the Materials Research Center at Lehigh University As part of this effort
 we had naturally compiled hundreds of references and become acquainted with many leaders in the field of blend and
 composite research Perhaps the most important concept stressed over and over again is that engineering materials are
 useful because of their complexity not in spite of it Blends and composites are toughened because many modes of resistance
 to failure are available Although such multimechanism processes are difficult to describe with a unified theory we have
 presented available developments in juxtaposition with the experimental portions The arguments somewhat resemble the
 classical discussion of resonance in organic chemistry where molecular structures increase in stability as more electronic
 configurations become available Mass Transport Phenomena in Ceramics A. Cooper, 2012-12-06 **Glass Science**
 Wilhelm Eitel, 2012-12-02 Silicate Science Volume VII Glass Science reviews the advances made in silicate research from
 1960 through 1970 with emphasis on glass science Although much of the discussion is still based on the classic physical
 chemistry theories an attempt is made to introduce the essential solid state physics principles and to show how they can be
 applied to non crystalline solids The properties of many diverse vitreous materials are presented Comprised of seven
 chapters this volume begins with an overview of glass forming elements and their compounds paying particular attention to
 their general character as glass forming phases The properties of chalcogenide glasses and non silicate oxide glasses are
 also discussed The next chapters focus on the viscosity of molten glass the electrolytic conductivity of silicates the specific
 volumina of glass melts and specific applications of infrared spectroscopy to solving structure problems The physical

properties of glass varied by thermal actions in the transformation and annealing ranges are considered as well The final chapter is devoted to miscellaneous additional constitution problems with particular reference to the volatilization of lead silicate glasses from glass melts and vitreous semiconductors of chalcogenide glasses This book will be of interest to mineralogists and crystallographers *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

Glas H. Scholze,2013-03-09 **Directory of Published Proceedings** ,1976 **Glass Technology** ,1985 *Glass Fibers 2018* Edith Mäder,Christina Scheffler,2020-04-30 Glass fibres are melt spun silica based inorganic materials Their main application is in glass fibre reinforced composites which account for more than 90% of all fibre reinforced composites currently produced Nevertheless improvement of the key properties of composites remains challenging The objective of this reprint is to focus on actual research topics related to glass fibres comprising multifunctional nanostructured surfaces e g graphene which can lead to electrically conductive fibres and their interphases in composites that are capable of uptake under a variety of mechanical chemical humidity and thermal conditions for in situ sensing functions Sizing of glass fibres help to protect the filaments from failure during processing and improves wetting and adhesion strength Furthermore the interphase may be varied by suppressing or promoting heterogeneous nucleation of a thermoplastic matrix and thus the transcrystalline layer can improve the mechanical performance Improved interfacial shear strength was shown with chitosan as a coupling agent in phosphate glass fiber polycaprolactone composites Modulus mapping of plasma synthesised interphases in glass fibre polyester composites was used to examine the local mechanical properties across the interphase region In addition numerous analytical techniques were applied to investigate changes within the surface of unsized boron

free E glass fibers after thermal conditioning at temperatures up to 700 C **Books in Print Supplement** ,1982

Advances in Glass Technology: History papers and Discussions of the technical papers, edited by Frederick R. Matson and Guy E. Rindone Frederick Rognald Matson, Guy E. Rindone, 1963 **Dielectrics in Electric Fields** Gorur Govinda Raju, 2017-07-28 Dielectrics in Electric Fields explores the influence of electric fields on dielectric i e non conducting or insulating materials examining the distinctive behaviors of these materials through well established principles of physics and engineering Featuring five new chapters nearly 200 new figures and more than 800 new citations this fully updated and significantly expanded Second Edition Analyzes inorganic substances with real life applications in harsh working conditions such as outdoor nuclear and space environments Introduces methods for measuring dielectric properties at microwave frequencies presenting results obtained for specific materials Discusses the application of dielectric theory in allied fields such as corrosion studies civil engineering and health sciences Combines in one chapter coverage of electrical breakdown in gases with breakdown in micrometric gaps Offers extensive coverage of electron energy distribution essential knowledge required for the application of plasma sciences in medical science Delivers a detailed review of breakdown in liquids along with an overview of electron mobility providing a clear understanding of breakdown phenomena Explains breakdown in solid dielectrics such as single crystals polycrystalline and amorphous states thin films and powders compressed to form pellets Addresses the latest advances in dielectric theory and research including cutting edge nanodielectric materials and their practical applications Blends early classical papers that laid the foundation for much of the dielectric theory with more recent work The author has drawn from more than 55 years of research studies and experience in the areas of high voltage engineering power systems and dielectric materials and systems to supply both aspiring and practicing engineers with a comprehensive authoritative source for up to date information on dielectrics in electric fields Publications United States. National Bureau of Standards, 1971 *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards, 1972

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