

SILICATE GLASSES AND MELTS

PROPERTIES AND STRUCTURE

B.O. MYSEN AND P. RICHET



Silicate Glasses And Melts Properties And Structure

P. H. Gaskell



Silicate Glasses And Melts Properties And Structure:

Silicate Glasses and Melts Bjorn Mysen, Pascal Richet, 2005-06-16 This book describes the structure property composition relationships for silicate glasses and melts of industrial and geological interest From Antiquity to the 20th century an introductory chapter presents this subject in a historical perspective Basic concepts are then discussed in three chapters where attention is paid to the glass transition and its various consequences on melt and glass properties to the structural and physical differences between amorphous and crystalline silicates and to the mutual relationships between local order energetics and physical properties With pure SiO₂ as a starting point compositions of increasing chemical complexity are successively dealt with in a dozen chapters The effects of network modifying cations on structure and properties are first exemplified by alkali and alkaline earth elements The specific influence of aluminum iron titanium and phosphorus are then reviewed With water volatiles in the system COHS noble gases and halogens the effects of volatile components are also described The last chapter explains how the results obtained on simpler melts can be applied to chemically complex systems In each chapter physical and chemical properties are described first and followed by a review of glass and melt structure When possible pressure effects are also considered From SiO₂ to complex silicate compositions the physical and chemical properties of melts and glasses of geological and industrial interest Structural characterization of melts and glasses from ambient to high pressure and temperature From basic concepts to an advanced level a consistent description of the structure property composition relationships in glasses and melts

Silicate Glasses and Melts Bjorn Mysen, Pascal Richet, 2018-11-27 Silicate Glasses and Melts Second Edition describes the structure property composition relationships for silicate glasses and melts from a geological and industrial perspective Updated sections include i characterization of silicate melt and COHN fluid structure with and without dissolved silicate components with pressure temperature and redox conditions and responses of structural variables to chemical composition ii determination of solubility and solution mechanisms of COHN volatiles in silicate melts and minerals and of solubility and solution mechanisms of silicate components in COHN fluids and iii effects of very high pressure on structure and properties of melts and glasses This new book is an essential resource for researchers in a number of fields including geology geophysics geoscience volcanology material science glass science petrology and mineralogy Brings together multidisciplinary research scattered across the scientific literature into one reference with a focus on silicate melts and their application to natural systems Emphasizes linking melt properties to melt structure Includes a discussion of the pros and cons of the use of glass as a proxy for melt structure and properties Written by highly regarded experts in the field who among other honors were the 2006 recipients of the prestigious G W Morey award of the American Ceramic Society

Structure and Properties of Silicate Melts Bjorn O. Mysen, 1988 Characterization of the relationships between structure and properties of materials is based on the fundamental principle that the structure of the material be determined first followed by assessments of which structural properties may govern their properties as a

function of composition pressure temperature and other variables Whereas this methodology has been successfully applied to further our understanding of crystalline materials studies of silicate melt structure are often conducted on a somewhat different basis Rather than from direct structural determination structure models have been developed from assumed relationships between a specific melt property and its structure As a result a multitude of models has evolved many of which are mutually exclusive The overall scope of this book is to address properties and processes of magmatic systems from the vantage point of melt structure To this end available data in chemically increasingly complex systems are reviewed and discussed with the ultimate goal being integration of the simple system data into a model that describes complex systems such as natural magmatic liquids Thus the book evolves from the simplest possible system SiO_2 to complex systems such as natural magmatic liquids From a petrologic point of view sufficient data have been obtained so that a general framework of the structure of magmatic liquids is in place This framework is based on the same principles as those of crystal chemistry modulated by the absence of long range order in amorphous material and systematic relationships between structure and properties can be discerned at least at atmospheric pressure

Structure, Dynamics, and Properties of Silicate Melts

Jonathan F. Stebbins, Paul F. McMillan, Donald B. Dingwell, 2018-12-17 Volume 32 of Reviews in Mineralogy introduces the basic concepts of melt physics and relaxation theory as applied to silicate melts then to describe the current state of experimental and computer simulation techniques for exploring the detailed atomic structure and dynamic processes which occur at high temperature and finally to consider the relationships between melt structure thermodynamic properties and rheology within these liquids These fundamental relations serve to bridge the extrapolation from often highly simplified melt compositions studied in the laboratory to the multicomponent systems found in nature This volume focuses on the properties of simple model silicate systems which are usually volatile free The behavior of natural magmas has been summarized in a previous Short Course volume Nicholls and Russell editors 1990 Reviews in Mineralogy Vol 24 and the effect of volatiles on magmatic properties in yet another Carroll and Holloway editors 1994 Vol 30 The Mineralogical Society of America sponsored a short course for which this was the text at Stanford University December 9 and 10 1995 preceding the Fall Meeting of the American Geophysical Union and MSA in San Francisco with about 100 professionals and graduate students in attendance

Geological Melts Daniel R. Neuville, Grant S. Henderson, Donald B. Dingwell, 2022-07-04 Volume 87 of Reviews in Mineralogy and Geochemistry covers fundamental aspects of the nature of silicate melts and the implications for the systems in which they participate both technological and natural The contents of this volume may perhaps best be summarized as structure properties dynamics The volume contains syntheses of short and medium range order structure property relationships and computation based simulations of melt structure It continues with analyses of the properties mechanical diffusive thermochemical redox nucleation rheological of melts The dynamic behavior of melts in magmatic and volcanic systems is then treated in the context of their behavior in magma mixing strain localization frictional melting

magmatic fragmentation and hot sintering Finally the non magmatic extraterrestrial and prehistoric roles of melt and glass are presented in their respective contexts **Structure and Properties of Silicate Melts** Bjorn O. Mysen, 1988

Characterization of the relationships between structure and properties of materials is based on the fundamental principle that the structure of the material be determined first followed by assessments of which structural properties may govern their properties as a function of composition pressure temperature and other variables Whereas this methodology has been successfully applied to further our understanding of crystalline materials studies of silicate melt structure are often conducted on a somewhat different basis Rather than from direct structural determination structure models have been developed from assumed relationships between a specific melt property and its structure As a result a multitude of models has evolved many of which are mutually exclusive The overall scope of this book is to address properties and processes of magmatic systems from the vantage point of melt structure To this end available data in chemically increasingly complex systems are reviewed and discussed with the ultimate goal being integration of the simple system data into a model that describes complex systems such as natural magmatic liquids Thus the book evolves from the simplest possible system SiO_2 to complex systems such as natural magmatic liquids From a petrologic point of view sufficient data have been obtained so that a general framework of the structure of magmatic liquids is in place This framework is based on the same principles as those of crystal chemistry modulated by the absence of long range order in amorphous material and systematic relationships between structure and properties can be discerned at least at atmospheric pressure *Fiberglass Science and Technology* Hong Li, 2021-08-20 This book highlights recent developments in fiberglass research and technology development including high performance fiberglass chemistry in depth glass network structure information derived from the state of the art spectroscopic measurements molecular dynamics simulations and their correlations with properties fiber surface chemistry in relation to sizing chemistry a critical part of composite performance fiber process stability fundamental understanding of the batch to melt conversion processes and melt flow simulations and environmental concerns such as energy efficiency and emission of volatile species which are key to environmentally friendly product manufacturing The book aims to guide fiberglass researchers and manufacturers towards better awareness and perhaps provides potential options for global ecosystem management More than 500 current references are included which will enable researchers from fiber glass industry and research institution access to the most recent progress in fiberglass science and technology Advances scientific understanding of fiberglass forming processes rising in popularity as a building material throughout the world Describes the current advances in the structure and formation of fiber glass beginning with chemistry a wide range of characterizations and processes through to applications Contains information on environmental aspects of fiberglass production addressing energy consumption and emission Thermodynamic and Kinetic Aspects of the Vitreous State S.V. Nemilov, 2018-01-18 This is the first book to logically present the major problems of the vitreous state within the framework of irreversible

thermodynamics Filled with elementary explanations for difficult problems this easily understood text reference treats in detail the criteria of glass transition the peculiarities of relaxing structural parameters and the Prigogine Defay ratio Based on the author's rigorous generalization of the Second Law for non equilibrium the book systematizes all known thermodynamic data for glasses and melts The thermodynamic essence of structural relaxation and memory effects are considered The viscous flow theories are treated as a constituent of the kinetic description All theoretical questions are illustrated by comparison of calculations with the experiments for glasses of inorganic and organic nature with special attention to structural classification An informative review of modern structural investigations is included The bibliography follows the history of the main problems from the nineteenth century Theoretical and Computational Methods in Mineral Physics Renata M. Wentzcovitch, Lars Stixrude, 2010 Volume 71 of Reviews in Mineralogy and Geochemistry represents an extensive review of the material presented by the invited speakers at a short course on Theoretical and Computational Methods in Mineral Physics held prior December 10-12 2009 to the Annual fall meeting of the American Geophysical Union in San Francisco California The meeting was held at the Doubletree Hotel Executive Meeting Center in Berkeley California Contents Density functional theory of electronic structure a short course for mineralogists and geophysicists The Minnesota density functionals and their applications to problems in mineralogy and geochemistry Density functional perturbation theory for quasi harmonic calculations Thermodynamic properties and phase relations in mantle minerals investigated by first principles quasiharmonic theory First principles quasiharmonic thermoelasticity of mantle minerals An overview of quantum Monte Carlo methods Quantum Monte Carlo studies of transition metal oxides Accurate and efficient calculations on strongly correlated minerals with the LDA U method review and perspectives Spin state crossover of iron in lower mantle minerals results of DFT U investigations Simulating diffusion Modeling dislocations and plasticity of deep earth materials Theoretical methods for calculating the lattice thermal conductivity of minerals Evolutionary crystal structure prediction as a method for the discovery of minerals and materials Multi Mbar phase transitions in minerals Computer simulations on phase transitions in ice Iron at Earth's core conditions from first principles calculations First principles molecular dynamics simulations of silicate melts structural and dynamical properties Lattice dynamics from force fields as a technique for mineral physics An efficient cluster expansion method for binary solid solutions application to the halite silvite NaCl KCl system Large scale simulations Thermodynamics of the Earth's mantle *Magmatic Processes* Bjorn O. Mysen, 1987 Struktur und Dynamik unterkühlter basaltischer Schmelzen Markus Hauser, 2000 *Physical Chemistry of Magmas* Leonid L. Perchuk, Ikuro Kushiro, 2013-04-09 Physical Chemistry of Magmas investigates the properties structure and phase relationships of silicate melts with invited contributions from an international team of experts Data and some rules for estimating the properties and structures of melts as well as the implications of the physical chemistry of silicate liquids to igneous petrology are presented The second section then focuses on phase relationships with particular attention on the application of experimental and

theoretical petrology to modeling the origin of certain magmas Springer Handbook of Glass J. David Musgraves, Juejun Hu, Laurent Calvez, 2019-11-08 This handbook provides comprehensive treatment of the current state of glass science from the leading experts in the field Opening with an enlightening contribution on the history of glass the volume is then divided into eight parts The first part covers fundamental properties from the current understanding of the thermodynamics of the amorphous state kinetics and linear and nonlinear optical properties through colors photosensitivity and chemical durability The second part provides dedicated chapters on each individual glass type covering traditional systems like silicates and other oxide systems as well as novel hybrid amorphous materials and spin glasses The third part features detailed descriptions of modern characterization techniques for understanding this complex state of matter The fourth part covers modeling from first principles calculations through molecular dynamics simulations and statistical modeling The fifth part presents a range of laboratory and industrial glass processing methods The remaining parts cover a wide and representative range of applications areas from optics and photonics through environment energy architecture and sensing Written by the leading international experts in the field the Springer Handbook of Glass represents an invaluable resource for graduate students through academic and industry researchers working in photonics optoelectronics materials science energy architecture and more Modelling of Minerals and Silicated Materials B. Silvi, P. D'Arco, 2006-04-11 The modeling of minerals and silicated materials is a difficult challenge faced by Solid State Physics Quantum Chemistry and Molecular Dynamics communities The difficulty of such a modeling is due to the wide diversity of elements including heavy atoms and types of bonding involved in such systems Moreover one has to consider infinite systems either perfect crystals or glasses and melts In the solid state a given chemical composition gives rise to numerous polymorphs geometrically closely related These polymorphs have very similar energies and related thermodynamical properties which explain the complexity of their phase diagrams The modeling of silicates and minerals covers a wide field of applications ranging from basic research to technology from Solid State Physics to Earth and Planetary science The use of modeling techniques yields information of different nature In the case of chemical studies we can mention investigations on catalytic processes occurring on surfaces and in zeolite cages These calculations find possible applications in chemical engineering in particular in the oil industry **The Structure of Non-crystalline Materials** P. H. Gaskell, 1977 Short Course in Silicate Melts C. M. Scarfe, 1986 Elements, 2006 Silicate Melts I. H. Campbell, Mineralogical Association of Canada, 1986 *The Structure of Glass*, 1960 **The Physical Chemistry of the Silicates** Wilhelm Eitel, 1954

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