

Andrew Chapman, Robert Anderson, and Giovanni

Atomic Simulations of Glasses

Engineering Science and Technology



Online Book Atomistic Computer Simulations Inorganic Glasses

Mahin Hemmati



Online Book Atomistic Computer Simulations Inorganic Glasses:

Atomistic Simulations of Glasses Jincheng Du, Alastair N. Cormack, 2022-03-29 A complete reference to computer simulations of inorganic glass materials In *Atomistic Simulations of Glasses Fundamentals and Applications* a team of distinguished researchers and active practitioners delivers a comprehensive review of the fundamentals and practical applications of atomistic simulations of inorganic glasses The book offers concise discussions of classical first principles Monte Carlo and other simulation methods together with structural analysis techniques and property calculation methods for the models of glass generated from these atomistic simulations before moving on to practical examples of the application of atomistic simulations in the research of several glass systems The authors describe simulations of silica silicate aluminosilicate borosilicate phosphate halide and oxyhalide glasses with up to date information and explore the challenges faced by researchers when dealing with these systems Both classical and ab initio methods are examined and comparison with experimental structural and property data provided Simulations of glass surfaces and surface water reactions are also covered *Atomistic Simulations of Glasses* includes multiple case studies and addresses a variety of applications of simulation from elucidating the structure and properties of glasses for optical electronic architecture applications to high technology fields such as flat panel displays nuclear waste disposal and biomedicine The book also includes A thorough introduction to the fundamentals of atomistic simulations including classical ab initio Reverse Monte Carlo simulation and topological constraint theory methods Important ingredients for simulations such as interatomic potential development structural analysis methods and property calculations are covered Comprehensive explorations of the applications of atomistic simulations in glass research including the history of atomistic simulations of glasses Practical discussions of rare earth and transition metal containing glasses as well as halide and oxyhalide glasses In depth examinations of glass surfaces and silicate glass water interactions Perfect for glass ceramic and materials scientists and engineers as well as physical inorganic and computational chemists *Atomistic Simulations of Glasses Fundamentals and Applications* is also an ideal resource for condensed matter and solid state physicists mechanical and civil engineers and those working with bioactive glasses Graduate students postdocs senior undergraduate students and others who intend to enter the field of simulations of glasses would also find the book highly valuable

Heterogeneities in Metallic Glasses: Atomistic Computer Simulations on the Structure and Mechanical Properties of Copper-zirconium Alloys and Composites Tobias Brink, 2017

Applications of Atomistic Simulation to Radioactive and Hazardous Waste Glass Formulation Development, 1995 Glass formulation development depends on an understanding of the effects of glass composition on its processibility and product quality Such compositional effects on properties in turn depend on the microscopic structure of the glass Historically compositional effects on macroscopic properties have been explored empirically e g by measuring viscosity at various glass compositions The relationship of composition to structure has been studied by microstructural experimental methods More

recently computer simulation has proved a fruitful complement to these more traditional methods of study. By simulating atomic interaction over a period of time using the molecular dynamics method a direct picture of the glass structure and dynamics is obtained which can verify existing concepts as well as permit measurement of quantities inaccessible to experiment. Atomistic simulation can be of particular benefit in the development of waste glasses. As vitrification is being considered for an increasing variety of waste streams process and product models are needed to formulate compositions for an extremely wide variety of elemental species and composition ranges. The demand for process and product models which can predict over such a diverse composition space requires mechanistic understanding of glass behavior. Atomistic simulation is ideally suited for providing this understanding. Moreover while simulation cannot completely eliminate the need for treatability studies it can play a role in minimizing the experimentation on and therefore contact handling of such materials. This paper briefly reviews the molecular dynamics method which is the primary atomistic simulation tool for studying glass structure. We then summarize the current state of glass simulation emphasizing areas of importance for waste glass process product modeling. At SRS glass process and product models have been formulated in terms of glass structural concepts.

Computer Simulation and Atomistic Modelling of Materials Institute of Physics. Atomic Collisions in Solids Group, 1993

Atomistic-simulations of Silicate Glasses Seung Ho Hahn, 2020

Silicate based glasses are one of the most versatile materials in terms of technological perspective with a wide range of industrial applications. In most cases glass products are exposed to various aqueous environments either humid air or liquid water and subject to physical contact with foreign objects which leads to deterioration of chemical and mechanical properties of glass surfaces. Therefore understanding their interactions with adsorbed interfacial water molecules is critical as it can provide physical insights needed for rational design of more durable glasses. Experimental characterization approaches have been applied to tackle difficult problems associated with the complex nature of glass surfaces but they are often limited by the time scale resolution. As a result they have failed to offer important structural characteristics and chemical reaction mechanisms under dynamic processes happening at the glass surface. To complement the challenges that experimental endeavors are encountering this dissertation aims to provide a comprehensive understanding of water interactions of silicate glass surfaces using atomistic scale simulations techniques. In particular ReaxFF reactive force field based molecular dynamics MD simulations are employed to study two distinct surface phenomena i) surface water reaction and ii) surface mechanochemical wear process. These studies represent the surface damage process of silicate glass in the absence and presence of mechanical actions respectively. The first part of this dissertation describes the water interactions of a silicate glass with readily leachable alkali sodium ions. In this study highly complex surface chemistry including proton water exchange with the sodium ions formation of relatively long living sodium hydroxide ionic complexes at the glass surface and eventual dissolution of those ion pairs into the water phase are described. Also surface mapping of water binding energy to the glass surface is evaluated at different stages of the

glass water reaction which would be relevant to assess the chemical durability of the glass materials based on the glass network topology After the transport behavior and glass water reaction mechanism at the surface has been identified the mechanochemical wear process of sodium silicate glass rubbed with amorphous silica in the absence and presence of interfacial water molecules is covered in the second part of this dissertation The effect of water molecules on the shear induced chemical reaction at the sliding interface was investigated and the dependence of wear on the number of interfacial water molecules in ReaxFF MD simulations was found to be qualitatively in reasonable agreement with the experimental data The large scale atomistic simulation approaches with ReaxFF reactive force field presented in this dissertation alleviates the limitations of DFT calculations and experiments providing new and meaningful insights on the chemical dynamics associated within the glass water interface

Molecular Dynamic Computer Simulations of Condensed Phase Interfaces with Silicate Glasses Edmund B. Webb, Rutgers University, 1996 **Computer Simulation in Chemical Physics** P. A. Netz, F. Starr, 2016-04

Atomistic Simulations to Study Metallic Glasses: a Microscopic Investigation of Local Structural Excitations Soumya Swayamjyoti, 2016 **Optical Constants of Inorganic Glasses** Andrei M. Efimov, 2020-01-29 This book is devoted to the problem of the frequency dispersion of optical constants of inorganic glasses It is the only source providing a comprehensive discussion of this topic on a unified physical and analytical basis Optical Constants of Inorganic Glasses presents thorough descriptions of the underlying physical phenomena analytical models for the optical constants dispersion and detailed information on the optical constants and related optical characteristics of glasses The broad scope of the book includes such topics as general relationships for the response of a solid to the effect of an electromagnetic field and specific features of optical spectrum formation for a glass and the resulting constants The text details methods for reconstructing the spectra of optical constants from raw experimental spectra of glasses and provides data on the spectra of optical constants in the IR and VUV ranges and on the IR band parameters for inorganic glasses It includes factors responsible for the behavior of the refractive index dispersion of glasses in the transparency range The reference fully details the opportunities provided by the recent version of dispersion analysis for glasses based on the specific analytical model for the complex dielectric constant Until now this information was only available in Russian journals A large quantity of never before published data on numerical values of optical constants in the medium and far IR and of IR band frequencies and intensities is given for a wide variety of inorganic glasses For vitreous silica data on the optical constants are also given for the broad wavelength range in the VUV Optical Constants of Inorganic Glasses provides the only comprehensive review of available dispersion formulas and methods for interpolating and extrapolating the refractive indices of glasses in the transparency range The volume is a valuable resource for researchers practitioners in the fields of glass technology

Fundamentals of Inorganic Glasses Arun K. Varshneya, John C. Mauro, 2019-05-09 Fundamentals of Inorganic Glasses Third Edition is a comprehensive reference on the field of glass science and engineering that covers numerous significant

advances This new edition includes the most recent advances in glass physics and chemistry also discussing groundbreaking applications of glassy materials It is suitable for upper level glass science courses and professional glass scientists and engineers at industrial and government labs Fundamental concepts chapter ending problem sets an emphasis on key ideas and timely notes on suggested readings are all included The book provides the breadth required of a comprehensive reference offering coverage of the composition structure and properties of inorganic glasses Atomistic Simulation

Techniques for Modelling Inorganic/organic Interface and Flotation Collector Design Tarun Kumar Kundu,2004 *Atomistic*

Computational Approaches in Molecular Models and Inorganic Crystallization Tesia Danielle Janicki,2022 Atomistic simulations provide a necessary lens through which to characterize nanoscale phenomena This dissertation begins with a description of molecular models and the development of an interatomic potential for benzene which incorporates atomic level anisotropy This model was made possible for bulk benzene systems through the implementation of a software plugin for the OpenMM simulation package which enables custom force expressions with atomic level anisotropy This initial discourse on force field development summarizes the types of interatomic potentials used in simulations and avenues for improved accuracy This knowledge of fundamental force field development is transferrable to developing approaches in modeling inorganic crystallization Solid phase epitaxy SPE is a crystal growth technique which employs low temperature annealing conditions to exact kinetic control over the final grown structure In this dissertation classical simulations are used to rigorously define the mechanism of epitaxial growth in strontium titanate over patterned substrates Modeling SPE is challenging from a simulation perspective because long timescales at experimental growth temperature exceed computational feasibility The enhanced sampling method metadynamics is presented here as a viable alternative for probing crystallization mechanisms in super cooled and viscous systems for which diffusion is limited Gaining mechanistic information from metadynamics is dependent on the goodness of reaction coordinate Here an XRD based coordinate is used to distinguish not only between the amorphous and crystal structures but also among metastable crystal polymorphs This dissertation summarizes work which encompasses research spanning molecular models and inorganic crystallization with added commentary on outreach and communication

from Computer Simulation Mahin Hemmati,1996
Vessal,G N. Greaves,P T. Marten,1991

Stability Limits and Structure of Glasses, Liquids, and Crystals
Computer Simulation Study of the Mixed Alkali Silicate Glasses B.

The Top Books of the Year Online Book Atomistic Computer Simulations Inorganic Glasses The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Online Book Atomistic Computer Simulations Inorganic Glasses : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Online Book Atomistic Computer Simulations Inorganic Glasses : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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