MetaStable

Pablo G. Debenedetti

Metastable Systems under Pressure Sylwester Rzoska, Aleksandra Drozd-Rzoska, Victor Mazur, 2009-11-19 recently discovered advantages of amorphous forms of medicines/pharmaceutical products which focused a significant part of industry-related efforts on the GFA (Glass Forming Ability) and the glass temperature (T) versus pressure g dependences. 1 b ? 0 ? ? o ? P ? Pg P ? Pg 0 ? ? ? T (P) = F (P)D(P) = T 1 + exp ? g g ? 0 ? ? ? ? c + Pg ? ? ? 400 1 b 0 o ? ? ? ? P ? P P ? Pg g 0 ? ? ? ? T (P) = F (P)D(P) = T 1 + exp ? g g 0 ? ? ? ? c ? + P max g ? ? ? T ~ 7 GPa g max P ~ 304 K Liquid g 300 1 HS glass 0 200 -1 mSG?=0.044 Liquid -2 100 -3 glass?=0.12 -1.2 -0.9 -0.6 -0.30.0 log T 10 scaled -10 1 2 3 4 5 6 7 8 9 10 11 12 P (GPa) g 19 Figure 1. The pressure evolution of the glass temperature in gl Th ye s cerol ol. id curve shows the parameterization of experimental data via the novel, modified Glat Sizm elon type equation, given in the Figure.

Metastable Liquids Pablo G. Debenedetti, 2020-06-16 Metastable Liquids provides a comprehensive treatment of the properties of liquids under conditions where the stable state is a vapor, a solid, or a liquid mixture of different composition. It examines the fundamental principles that govern the equilibrium properties, stability, relaxation mechanisms, and relaxation rates of metastable liquids. Building on the interplay of kinetics and thermodynamics that determines the thermophysical properties and structural relaxation of metastable liquids, it offers an in-depth treatment of thermodynamic stability theory, the statistical mechanics of metastability, nucleation, spinodal decomposition, supercooled liquids, and the glass transition. Both traditional topics--such as stability theory--and modern developments--including modern theories of nucleation and the properties of supercooled and glassy water--are treated in detail. An introductory chapter illustrates, with numerous examples, the importance and ubiquity of metastable liquids. Examples include the ascent of sap in plants, the strategies adopted by many living organisms to survive prolonged exposure to sub-freezing conditions, the behavior of proteins at low temperatures, metastability in mineral inclusions, ozone depletion, the preservation and storage of labile biochemicals, and the prevention of natural gas clathrate hydrate formation. All mathematical symbols are defined in the text and key equations are clearly explained. More complex mathematical explanations are available in the appendixes.

Metastability Anton Bovier, Frank den Hollander, 2015 Metastability is a wide-spread phenomenon in the dynamics of non-linear systems - physical, chemical, biological or economic - subject to the action of temporal random forces typically referred to as noise. This monograph provides a concise presentation of mathematical approach to metastability based on potential theory of reversible Markov processes. The authors shed new light on the metastability phenomenon as a sequence of visits of the path of the process to different metastable sets, and focus on the precise analysis of the respective hitting probabilities and hitting times of these sets. The theory is illustrated with many examples, ranging from finite-state Markov chains, finite-dimensional diffusions and stochastic partial differential equations, via mean-field dynamics with and without disorder, to stochastic spin-flip and particle-hopping dynamics and probabilistic cellular automata, unveiling the common universal features of these systems with respect to their metastable behaviour. The monograph will serve both as comprehensive introduction and as reference for graduate students and researchers interested in metastability.

Metastability and Incompletely Posed Problems Stuart S. Antman, J.L. Ericksen, David Kinderlehrer, Ingo Müller, 2012-12-06 This IMA Volume in Mathematics and its Applications Metastability and Incompletely Posed Problems represents the proceedings of a workshop which was an integral part of the 19R4-R5 IMA program on CONTINUUM PHYSICS AND PARTIAL DIFFERENTIAL EOIIATIONS.

We are grateful to the Scientific Committee: ,I.L. Eri cksen D. Kinderlehrer H. Rrezis C. Dafermos for their dedication and hard work in developing an imaginative, stimulating, and productive year-long program. George R. Sell Hans Weinberger Preface Most equilibrium events in nature do not realize configurations of minimum energy. They are only metastable. Available knowledge of constitutive relations and environmental interactions may be limiterl. As a result, many configurations may he compatible with the rlata. Such questions are incompletely poserl. The papers in this volume address a wide variety of these issues as they are perceived by the material scientist and the mathematician. They represent a portion of the significant activity which has been underway in recent years, from the experimental arena and physical theory to the analysis of differential equations and computation.

Metastable-Phase Materials Qi Shao,Zhenhui Kang,Mingwang Shao,2024-08-26 This book summarizes an arising branch of materials, metastable materials, which are rarely discussed before and addresses their applications in catalytic reactions.

Phase Transitions in Polymers: The Role of Metastable States Stephen Z.D. Cheng,2008-09-10 A classical metastable state possesses a local free energy minimum at infinite sizes, but not a global one. This concept is phase size independent. We have studied a number of experimental results and proposed a new concept that there exists a wide range of metastable states in polymers on different length scales where their metastability is critically determined by the phase size and dimensionality. Metastable states are also observed in phase transformations that are kinetically impeded on the pathway to thermodynamic equilibrium. This was illustrated in structural and morphological investigations of crystallization and mesophase transitions, liquid-liquid phase separation, vitrification and gel formation, as well as combinations of these transformation processes. The phase behaviours in polymers are thus dominated by interlinks of metastable states on different length scales. This concept successfully explains many experimental observations and provides a new way to connect different aspects of polymer physics. * Written by a leading scholar and industry expert * Presents new and cutting edge material encouraging innovation and future research * Connects hot topics and leading research in one concise volume

Metastable Dynamics of Neural Ensembles Emili Balaguer-Ballester, Ruben Moreno-Bote, Gustavo Deco, Daniel Durstewitz, 2018-03-19 A classical view of neural computation is that it can be characterized in terms of convergence to attractor states or sequential transitions among states in a noisy background. After over three decades, is this still a valid model of how brain dynamics implements cognition? This book provides a comprehensive collection of recent theoretical and experimental contributions addressing the question of stable versus transient neural population dynamics from complementary angles. These studies showcase recent efforts for designing a framework that encompasses the multiple facets of metastability in neural responses, one of the most exciting topics currently in systems and computational neuroscience.

Metastable Systems under Pressure Sylwester Rzoska, Aleksandra Drozd-Rzoska, Victor Mazur, 2009-11-16 recently discovered advantages of amorphous forms of medicines/pharmaceutical products which focused a significant part of industry-related efforts on the GFA (Glass Forming Ability) and the glass temperature (T) versus pressure g dependences. 1 b ? 0 ? ? o ? P ? Pg P ? Pg 0 ? ? ? ? T (P) = F (P)D(P) = T 1 + exp ? g g ? 0 ? ? ? ? ? c + Pg ? ? ? ? 400 1 b 0 o ? ? ? ? P ? P P ? Pg g 0 ? ? ? ? ? T (P) = F (P)D(P) = T 1 + exp ? g g 0 ? ? ? ? ? c ? + P max g ? ? ? ? T ~ 7 GPa g max P ~ 304 K Liquid g 300 1 HS glass 0 200 -1 mSG ?=0.044 Liquid -2 100 -3 glass ?=0.12 -1.2 -0.9 -0.6 -0.3 0.0 log T 10 scaled -1 0 1 2 3 4 5 6 7 8 9 10 11 12 P (GPa) g 19 Figure 1. The pressure evolution of the glass temperature in gl Th ye s cerol ol . id curve shows the parameterization of experimental data via the novel, modified Glat Sizm elon type equation, given in the Figure.

Introduction to the Theory of Metastable and Unstable States James D. Gunton, Michel Droz, 1983 D(X) Centres and other Metastable Defects in Semiconductors, Proceedings of the INT Symposium, Mauterndorf, Austria, 18-22 February 1991 W. Jantsch, R.A. Stradling, 2020-11-25 Since the first reports on metastable defects in III-V and II-VI compound semiconductors appeared in the late 1960s, the number of reports on defects with metastable states has been growing at an ever increasing rate. D(X)-center and other metastability defects cause many technical problems that are exacerbated by the uncertainty and controversy surrounding the mechanisms that cause them. A lively mix of theoretical and experimental discussions, D(X)-Centres and other Metastable Defects in Semiconductors presents a timely investigation of these systems. The book discusses topics such as, the validity of negative or positive U models, as well as alternative views that challenge existing ideas. The richness and precision of experimental data now emerging in the field is chronicled as are new investigative techniques. Based on an INT symposium, this book provides a successful forum where an extraordinary variety of ideas, including new perspectives, are examined critically.

Metastable States in Amorphous Chalcogenide Semiconductors Victor I. Mikla, Victor V.

Mikla,2009-12-24 This book presents experimental results on the structural and electronic metastable states in Se-rich chalcogenides. Coverage includes states in the mobility gap, structural transformation, photocrystallization, and many potential related applications.

Metastable Solids from Undercooled Melts Dieter Herlach, Dirk Holland-Moritz, Peter Galenko, 2006-12-18 This book presents the physical concepts and tools to characterize and describe the formation of metastable solids from undercooled melts. Its aim is to facilitate understanding of the development of the science and technology of solidification of melts and to introduce new concepts within this exciting research field in order to fulfil the challenges of the future in the field of undercooled melts. A comprehensive description of the science and applications of the undercooling phenomenon is given. It is composed of several main parts: experimental techniques for undercooling; characterization of the undercooled melt as the first step in rapid solidification; introducing the concepts of modern theories of rapid dendrite and eutectic growth and their comparison with experimental results, and a survey of metastable materials formed from the non-equilibrium state of an undercooled melt. * Showing clear links to possible application of results obtained from basic research * The subject matter is multidisciplinary and will be of interest to material scientists, physicists, physical chemists, mechanical and electrical engineers

Collapse of Metastability Seiji Miyashita,2022-11-05 To understand phenomena in nature, it is important to focus not only on properties of stationary states, but also their changes in time, that is, the dynamics between bistable states. This book reviews the mechanics of first-order phase transitions and discusses relaxation and collapses of metastable states from various viewpoints, including Kramers' method for the lifetime of metastability, Langer's analysis on the singularity, effects of thermal fluctuation studied by Néel and Brown, and eigenvalue structures of the transfer-matrix for the phase transitions. The book also goes into the mechanics of metastability in quantum systems from the viewpoints of the eigenvalue problem of the Hamiltonian and the Liouvillian for a dynamical process and discusses relations between quantum tunneling processes and metastability therein. Lastly, the coercivity of magnets consisting of an ensemble of grains is reviewed. The book is beneficial for those new in the field as a primer on first-order phase transition from modern perspectives. The comprehensive content offers overviews of related topics and allows readers to quickly catch up with developments in the field.

Introduction to the Theory of Metastable and Unstable States J. D. Gunton, M. Droz, 2014-01-15 Thermal Stability of Metastable Magnetic Skyrmions Louise Desplat, 2021-02-04 The energy cost

associated with modern information technologies has been increasing exponentially over time, stimulating the search for alternative information storage and processing devices. Magnetic skyrmions are solitonic nanometer-scale quasiparticles whose unique topological properties can be thought of as that of a Mobius strip. Skyrmions are envisioned as information carriers in novel information processing and storage devices with low power consumption and high information density. As such, they could contribute to solving the energy challenge. In order to be used in applications, isolated skyrmions must be thermally stable at the scale of years. In this work, their stability is studied through two main approaches: the Kramers' method in the form of Langer's theory, and the forward flux sampling method. Good agreement is found between the two methods. We find that small skyrmions possess low internal energy barriers, but are stabilized by a large activation entropy. This is a direct consequence of the existence of stable modes of deformation of the skyrmion. Additionally, frustrated exchange that arises at some transition metal interfaces leads to new collapse paths in the form of the partial nucleation of the corresponding antiparticle, as merons and antimerons.

Metastable Materials Formation by Ion Implantation Materials Research Society. Meeting, S. T. Picraux, W. J. Choyke, Materials Research Society, 1982

Metastability and Markov State Models in Molecular Dynamics: Modeling, Analysis, Algorithmic Approaches Christof Schütte, Marco Sarich, 2013-12-26 Applications in modern biotechnology and molecular medicine often require simulation of biomolecular systems in atomic representation with immense length and timescales that are far beyond the capacity of computer power currently available. As a consequence, there is an increasing need for reduced models that describe the relevant dynamical properties while at the same time being less complex. In this book the authors exploit the existence of metastable sets for constructing such a reduced molecular dynamics model, the so-called Markov state model (MSM), with good approximation properties on the long timescales. With its many examples and illustrations, this book is addressed to graduate students, mathematicians, and practical computational scientists wanting an overview of the mathematical background for the ever-increasing research activity on how to construct MSMs for very different molecular systems ranging from peptides to proteins, from RNA to DNA, and via molecular sensors to molecular aggregation. This book bridges the gap between mathematical research on molecular dynamics and its practical use for realistic molecular systems by providing readers with tools for performing in-depth analysis of simulation and data-analysis methods. Titles in this series are co-published with the Courant Institute of Mathematical Sciences at New York University.

The Metastable Homotopy of \$S^n\$ Mark E. Mahowald, 1967

Metastable Alloys: Preparation and Properties K.W. Samwer, M. von Allmen, J. Bøttiger, B. Stritzker, 2014-01-13 This volume contains most of the papers presented at symposium D, one of the four symposia that formed the 1988 Strasbourg Spring Conference. The three day programme consisted of nine oral sessions; a poster session and a plenary talk giving an overview of current topics in hard magnetic materials. Scientists involved in basic as well as applied research concentrated their discussions on the fundamental processes relevant for the formation of metastable alloys such as amorphous alloys (metallic glasses), microcrystalline, quasicrystalline and nanocrystalline alloys and their applications. These materials are proving to be of considerable interest to research workers because of their possible application in the electronics industry, e.g. as diffusion barriers in devices or as data storage media.

Large Deviations and Metastability Enzo Olivieri, Maria Eulália Vares, 2005-02-21 Publisher Description

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "MetaStable," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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