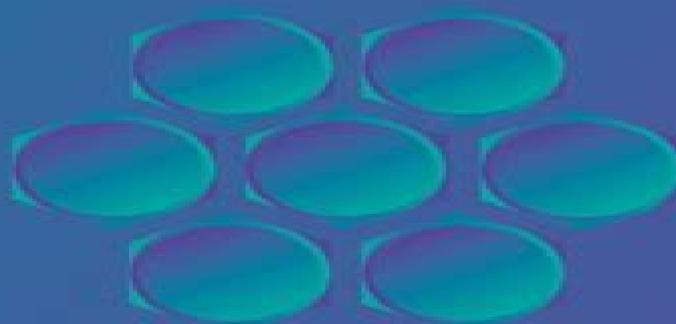


# CONDENSED MATTER DISORDERED SOLIDS

Editors

S K Srivastava

N H March



World Scientific

# Condensed Matter Disordered Solids

**F. Yonezawa, T. Ninomiya**



## **Condensed Matter Disordered Solids:**

Condensed Matter Dr. S. K. Srivastava, Norman Henry March, 1995 This book deals with different aspects of the structure and properties of disordered materials Whenever the normal state of matter is affected by internal or external agencies and new states are developed it is generally observed that the new materials possess disordered structures However some characteristics such as the electronic and ionic remain similar to those of crystalline solids Such isotropic materials are also termed disordered solids This book surveys the physics of materials like non transition transition metals and alloys in their solid and liquid phases liquid amorphous solids and materials with super structures like fullerene lattices etc The advancements in these materials which possess unusual physical properties provide exciting possibilities for technology and industry Up to date investigations about theoretical and experimental techniques are presented here The reviews on different materials were prepared by renowned experts in the corresponding areas *Glassy Materials and Disordered Solids* Kurt Binder, Walter Kob, 2005 The physics of glassy materials and disordered solids presents a challenging area of study This book provides an introduction to important concepts such as percolation fractals spin glasses and glasses It is useful for researchers on amorphous materials and is also intended for theorists and experimentalists **Theory of Disordered Solids** Alessio Zaccone, 2023-06-30 This book presents a consistent mathematical theory of the non electronic physical properties of disordered and amorphous solids starting from the atomic level dynamics and leading to experimentally verifiable descriptions of macroscopic properties such as elastic and viscoelastic moduli plasticity phonons and vibrational spectra and thermal properties This theory begins with the assumption of the undeniable existence of an amorphous lattice which allows one to relegate the theoretical uncertainties about the ultimate nature of the glass transition to a subsidiary role and thus take a more pragmatic approach towards the modelling of physical properties The book introduces the reader not only to the subtle physical concepts underlying the dynamics mechanics and statistical physics of glasses and amorphous solids but also to the essential mathematical and numerical methods that cannot be readily gleaned from specialized literature since they are spread out among many often technically demanding papers These methods are presented in this book in such a way as to be sufficiently general allowing for the mathematical or numerical description of novel physical phenomena observed in many different types of amorphous solids including soft and granular systems regardless of the atomistic details and particular chemistry of the material This monograph is aimed at researchers and graduate level students in physics materials science physical chemistry and engineering working in the areas of amorphous materials soft matter and granular systems statistical physics continuum mechanics plasticity and solid mechanics It is also particularly well suited to those working on molecular dynamics simulations molecular coarse grained simulations as well as ab initio atomistic and DFT methods for solid state and materials science **Glassy Materials and Disordered Solids** Kurt Binder, Walter Kob, 2011 **Low-temperature Thermal And Vibrational Properties Of Disordered Solids: A**

**Half-century Of Universal "Anomalies" Of Glasses** Miguel A Ramos,2022-08-11 This book edited by M A Ramos and contributed by several reputed physicists in the field presents a timely review on low temperature thermal and vibrational properties of glasses and of disordered solids in general In 1971 the seminal work of Zeller and Pohl was published which triggered this relevant research field in condensed matter physics Hence this book also commemorates about 50 years of that highlight with a comprehensive updated review In brief glasses firstly genuine amorphous solids but later on followed by different disordered crystals were found to universally exhibit low temperature properties specific heat thermal conductivity acoustic and dielectric attenuation etc unexpectedly very similar among them and very different from those of their crystalline counterparts These universal anomalies of glasses and other disordered solids remain very controversial topics in condensed matter physics They have been addressed exhaustively in this book through many updated experimental data a survey of most relevant models and theories as well as by computational simulations

**Glassy Materials And Disordered Solids: An Introduction To Their Statistical Mechanics (Revised Edition)** Kurt Binder,Walter Kob,2011-01-31 This book gives a pedagogical introduction to the physics of amorphous solids and related disordered condensed matter systems Important concepts from statistical mechanics such as percolation random walks fractals and spin glasses are explained Using these concepts the common aspects of these systems are emphasized and the current understanding of the glass transition and the structure of glasses are concisely reviewed This second edition includes new material on emerging topics in the field of disordered systems such as gels driven systems dynamical heterogeneities growing length scales etc as well as an update of the literature in this rapidly developing field

Topological Disorder in Condensed Matter F. Yonezawa,T. Ninomiya,2012-12-06 This volume contains papers presented at the Fifth Taniguchi Symposium on the Theory of Condensed Matter which was held between 2 5 November 1982 at Shimoda Japan The topic of the Symposium was Topological Disorder in Condensed Matter The objective of the Taniguchi Symposium is to encourage activity in those fields of research not in the limelight at the moment but regarded as very promising such as our theme Topological disorder refers to the dis order in the positions and connectivities of atoms in amorphous solids and liquids The development of the physiCS of topologically disorderd systems though extremely important fundamentally and for application purposes falls far behind compared to that of other kinds of disorderd systems because the structure characterization of topologically disordered systems is still at a rather primitive stage The structure characterization is the key to com prehensive understanding of physical properties of any material Recently several new attempts at structural analyses have been reported Encouraged by this fact our motivation in organizing the symposium was to investigate the possibilities of theoretical approaches to open a breakthrough in the present research situation on this subject A rough sketch of the problem is made in the Introduction to give the readers a general outline of the subject Part I is devoted to several at tempts to synthesize and characterize topological disorder more or less by analytical means

Solid State Physics R. Mukhopadhyay,1999 *Disordered Systems and New Materials* Milko

Borisov, Nikolaï Kirov, Aleksandŭr Vavrek, 1989      Soft Matter Wim van Saarloos, Vincenzo Vitelli, Zorana Zeravcic, 2023-12-19 A comprehensive modern introduction to soft matter physics Soft matter science is an interdisciplinary field at the interface of physics biology chemistry engineering and materials science It encompasses colloids polymers and liquid crystals as well as rapidly emerging topics such as metamaterials memory formation and learning in matter bioactive systems and artificial life This textbook introduces key phenomena and concepts in soft matter from a modern perspective marrying established knowledge with the latest developments and applications The presentation integrates statistical mechanics dynamical systems and hydrodynamic approaches emphasizing conservation laws and broken symmetries as guiding principles while paying attention to computational and machine learning advances An all in one textbook for advanced undergraduates and graduate students and an invaluable reference for practitioners Features introductory chapters on fluid mechanics elasticity and stochastic phenomena Covers advanced topics such as pattern formation and active matter Discusses technological applications as well as relevant phenomena in the life sciences Offers perspectives on emerging research directions Includes more than a hundred step by step problems suitable for active learning and flipped classroom settings Accompanied by a website with additional material such as movies of experimental systems Solutions manual available only to instructors      **Electrons and Disorder in Solids** V. F. Gantmakher, 2005-08-25 This book has been written for those who study or professionally deal with solid state physics It contains modern concepts about the physics of electrons in solids It is written using a minimum of mathematics The emphasis is laid on various physical models aimed at stimulating creative thinking The book helps the reader choose the most efficient scheme of an experiment or the optimal algorithm of a calculation Boltzmann and hopping types of conductivity are compared The qualitative theory of weak localization is presented and its links with the true localization and metal insulator transitions Processes that determine the structure of impurity bands are revealed The concepts introduced in this book are applied to descriptions of granular metals and quasicrystals as well as the integer quantum Hall effect emphasizing their universality      Recent Developments in Condensed Matter Physics J. T. Devreese, 2012-12-06 These volumes contain the invited and contributed talks of the first general Conference of the Condensed Matter Division of the European Physical Society which took place at the campus of the University of Antwerpen Universitaire Instelling Antwerpen from April 9 till 11 1980 The invited talks give a broad perspective of the current state in Europe of research in condensed matter physics New developments and advances in experiments as well as theory are reported for 28 topics Some of these developments such as the recent stabilization of mono atomic hydrogen with the challenging prospect of Bose condensation can be considered as major break throughs in condensed matter physics Of the 65 invited lecturers 54 have submitted a manuscript The remaining talks are published as abstracts The contents of this first volume consists of 9 plenary papers Among the topics treated in these papers are electronic structure computations of iron the density functional theory hydrogen in amorphous Si topologically disordered

materials nuclear antiferromagnetism stabilization of mono atomic hydrogen gas covalent and metallic glasses nonlinear excitations in ferroelectrics *Quantum Solid-state Physics* Sergeĭ Vasil'evich Vonsovskii, Mikhail Iosifovich

Kat[s]nel'son,1989 **Recent Developments in Condensed Matter Physics** Jozef Devrees,1981-10-01 These volumes contain the invited and contributed talks of the first general Conference of the Condensed Matter Division of the European Physical Society which took place at the campus of the University of Antwerpen Universitaire Instelling Antwerpen from April 9 till 11 1980 The invited talks give a broad perspective of the current state in Europe of research in condensed matter physics New developments and advances in experiments as well as theory are reported for 28 topics Some of these developments such as the recent stabilization of mono atomic hydrogen with the challenging prospect of Bose condensation can be considered as major break throughs in condensed matter physics Of the 65 invited lecturers 54 have submitted a manuscript The remaining talks are published as abstracts The contents of this first volume consists of 9 plenary papers Among the topics treated in these papers are electronic structure computations of iron the density functional theory hydrogen in amorphous Si topologically disordered materials nuclear antiferromagnetism stabilization of mono atomic hydrogen gas covalent and metallic glasses nonlinear excitations in ferroelectrics [Disorder in Condensed Matter Physics](#)

Roger J. Elliott,J. A. Blackman,J. Tagüeña,1991 This collection of articles is based on papers presented at a Symposium held in Oxford to mark the 60th birthday of Roger Elliot a leading figure in theoretical condensed matter physics **Low-energy Excitations In Disordered Solids: A Story Of The 'Universal' Phenomena Of Structural Tunneling** Richard B

Stephens,Xiao Liu,2021-04-29 The subject of low energy excitations has evolved since two level tunneling systems were first proposed 50 years ago Initially they were used to explain the common anomalous properties of oxide glasses and polymers now the subject includes a wide range of other materials containing disorder amorphous semiconductors and metals doped mixed and quasi crystals surface adsorbates and topics such as dephasing of quantum states and interferometer noise A fairly simple empirical description using a remarkably small range of parameters serves well to describe the effect of these excitations but the structures causing these effects are known in only a few materials and the reasons for their similarity across disparate materials has only been qualitatively addressed This book provides a unified comprehensive description of tunneling systems in disordered solids suitable for graduate students researchers wishing an introduction to the field Its focus is on the tunneling systems intrinsic to glassy solids It describes the experimental observations of glassy properties develops the basic empirical tunneling model and discusses the dynamics changes on cooling to temperatures where direct excitation interactions become important and on heating to where tunneling gives way to thermal activation Finally it discusses how theories of glass formation can help us understand the ubiquity of these excitations The Development of the basic tunneling model is the core of the book and is worked out in considerable detail To keep the total within bounds of our expertise and the readers patience many related experimental and theoretical developments are only sketched out here the

text is heavily cited to allow readers to follow their specific interests in much more depth **Physics, Uspekhi**, 2007

**Local Order in Condensed Matter Physics** S. D. Mahanti, P. Jena, 1995 Many of the observed electronic properties of condensed matter systems such as clusters of atoms solids with long or short range order amorphous and liquid metals are governed by the local atomic arrangements around the probe site The topics in this important volume include Molecules and clusters Point defects and defect complexes in solids Hydrogen and positive muons in metals and semiconductors Disordered solids and liquid metals Diffusion and clustering in bulk on surfaces and other restricted geometry High temperature superconductors including C60 assembled materials

**Disordered Materials** Paolo Ossi, 2013-06-29 The teaching of solid state physics essentially concerns focusing on crystals and their properties We study crystals and their properties because of the simple and neat results obtained from the analysis of a spatially periodic system this is why the analysis can be made considering a small set of atoms that represent the whole system of many particles In contrast to the formal neat approach to crystals the study of structurally disordered condensed systems is somewhat complicated and often leads to relatively imprecise results not to mention the experimental and computational effort involved As such almost all university textbooks including the advanced course books only briefly touch on the physics of amorphous systems In any case both the fundamental aspect and the ever wider industrial applications have given structurally disordered matter a role that should not be overlooked The study of amorphous solids and their structure stability and properties is a vibrant research branch it is difficult to imagine how any physicist chemist or engineer who has to deal with materials could possibly ignore this class of systems The author of *Disordered Matter an Introduction* uses this course book at the Politecnico in Milan Italy Collecting the material for the course proved no mean task leading him to have to prepare ad hoc didactic material The continual exchange between teacher and student has led to the current version of the book

**Diffusion in Condensed Matter** Paul Heitjans, Jörg Kärger, 2006-01-16 Diffusion as the process of particle transport due to stochastic movement is a phenomenon of crucial relevance for a large variety of processes and materials This comprehensive handbook style survey of diffusion in condensed matter gives detailed insight into diffusion as the process of particle transport due to stochastic movement Leading experts in the field describe in 23 chapters the different aspects of diffusion covering microscopic and macroscopic experimental techniques and exemplary results for various classes of solids liquids and interfaces as well as several theoretical concepts and models Students and scientists in physics chemistry materials science and biology will benefit from this detailed compilation

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