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Quasielastic Neutron Scattering and Solid State Diffusion

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Victoria M. Nield, David A. Keen



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Quasielastic Neutron Scattering and Solid State Diffusion Rolf Hempelmann, 2000 **Quasielastic Neutron Scattering, Principles and Applications in Solid State Chemistry, Biology and Materials Science** Marc Bée, 1988

Written by an author who is widely recognized as one of the specialists of the techniques for the investigation of molecular motions in solids the subject is given a thorough theoretical treatment and is illustrated with numerous examples of recent experimental applications *Diffusion in Solids* Helmut Mehrer, 2007-07-24 Diffusion is a vital topic in solid state physics and chemistry physical metallurgy and materials science Diffusion processes are ubiquitous in solids at elevated temperatures A thorough understanding of diffusion in materials is crucial for materials development and engineering This book first gives an account of the central aspects of diffusion in solids for which the necessary background is a course in solid state physics It then provides easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Several diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion are considered as well Graduate students in solid state physics physical metallurgy materials science physical and inorganic chemistry or geophysics will benefit from this book as will physicists chemists metallurgists materials engineers in academic and industrial research laboratories *Experimental Neutron Scattering* B. T. M. Willis, C. J. Carlile, 2017-03-23 The first systematic experiments in neutron scattering were carried out in the late 1940s using fission reactors built for the nuclear power programme Crystallographers were amongst the first to exploit the new technique but they were soon followed by condensed matter physicists and chemists Engineers and biologists are the most recent recruits to the club of neutron users The aim of the book is to provide a broad survey of the experimental activities of all these users There are many specialist monographs describing particular examples of the application of neutron scattering fifteen of such monographs have been published already in the Oxford University Press series edited by S Lovesey and E Mitchell However this book will appeal to newcomers to the field of neutron scattering who may be intimidated by the bewildering array of instruments at central facilities such as the Institut Laue Langevin in France the ISIS Laboratory in the UK or the PSI Laboratory in Switzerland and who may be uncertain as to which instrument to use **Solid State Proton Conductors** Philippe Knauth, Maria Luisa Di Vona, 2012-01-30 Proton conduction can be found in many different solid materials from organic polymers at room temperature to inorganic oxides at high temperature Solid state proton conductors are of central interest for many technological innovations including hydrogen and humidity sensors membranes for water electrolyzers and most importantly for high efficiency electrochemical energy conversion in fuel cells Focusing on fundamentals and physico chemical properties of solid state proton conductors topics covered include Morphology and Structure of Solid Acids Diffusion in Solid Proton Conductors by Nuclear Magnetic Resonance Spectroscopy Structure and Diffusivity by Quasielastic Neutron Scattering Broadband Dielectric Spectroscopy Mechanical and Dynamic Mechanical

Analysis of Proton Conducting Polymers Ab initio Modeling of Transport and Structure Perfluorinated Sulfonic Acids Proton Conducting Aromatic Polymers Inorganic Solid Proton Conductors Uniquely combining both organic polymeric and inorganic proton conductors Solid State Proton Conductors Properties and Applications in Fuel Cells provides a complete treatment of research on proton conducting materials **Diffuse Neutron Scattering from Crystalline Materials** Victoria M.

Nield, David A. Keen, 2001 The present book is an accessible comprehensive guide to diffuse neutron scattering an important technique for studying structural disorder in materials The text takes the reader through theoretical computational and experimental developments in the subject and describes in detail its application to a number of structural disorder problems These include the more traditional subjects of substitutional disorder in alloys and orientational disorder in molecular systems as well as the more recent studies of superionic and framework materials Particular emphasis is placed on recent refinement methods for data interpretation which are compared with established computer simulation techniques and analytical approaches The book collects disparate themes into one unique volume written as an introduction to the method for graduate scientists It will be a valuable reference text for any crystallographer keen to understand and apply modern interpretative techniques to diffuse scattering data **Quasicrystals** Hans-Rainer Trebin, 2006-05-12 Quasicrystals form a

new state of solid matter beside the crystalline and the amorphous The positions of the atoms are ordered but with noncrystallographic rotational symmetries and in a nonperiodic way The new structure induces unusual physical properties promising interesting applications This book provides a comprehensive and up to date review and presents most recent research results achieved by a collaboration of physicists chemists material scientists and mathematicians within the Priority Programme Quasicrystals Structure and Physical Properties of the Deutsche Forschungsgemeinschaft DFG Starting from metallurgy synthesis and characterization the authors carry on with structure and mathematical modelling On this basis electronic magnetic thermal dynamic and mechanical properties are dealt with and finally surfaces and thin films

Magnetic Small-Angle Neutron Scattering Andreas Michels, 2021-04-01 This monograph provides the first extensive treatment of magnetic small angle neutron scattering SANS The theoretical background required to compute magnetic SANS cross sections and correlation functions related to long wavelength magnetization structures is laid out The concepts are scrutinized based on the discussion of experimental neutron data Regarding prior background knowledge some familiarity with the basic magnetic interactions and phenomena as well as scattering theory is desired Besides exposing the different origins of magnetic SANS and furnishing the basics of the magnetic SANS technique in early chapters a large part of the book is devoted to a comprehensive treatment of the continuum theory of micromagnetics as it is relevant for the study of the elastic magnetic SANS cross section Analytical expressions for the magnetization Fourier components allow to highlight the essential features of magnetic SANS and to analyze experimental data both in reciprocal as well as in real space Later chapters provide an overview on the magnetic SANS of nanoparticles and so called complex systems e g ferrofluids magnetic

steels spin glasses and amorphous magnets It is this subfield where major progress is expected to be made in the coming years mainly via the increased usage of numerical micromagnetic simulations Chapter 7 which is a very promising approach for the understanding of the magnetic SANS from systems exhibiting nanoscale spin inhomogeneity

Introduction to Solid State Ionics C. S. Sunandana, 2015-11-11 Introduction to Solid State Ionics Phenomenology and Applications presents a pedagogical graduate level treatment of the science and technology of superionic conductors also known as fast ion conductors or solid electrolytes Suitable for physics materials science and engineering researchers and students the text emphasizes basic physics and

Neutron Scattering in Earth Sciences Hans Rudolf Wenk, 2018-12-17 Volume 63 of Reviews in Mineralogy and Geochemistry provides an introduction for those not yet familiar with neutrons by describing basic features of neutrons and their interaction with matter as well illustrating important applications The volume is divided into 17 Chapters The first two chapters introduce properties of neutrons and neutron facilities setting the stage for applications Some applications rely on single crystals Chapter 3 but mostly powders Chapters 4 5 and bulk polycrystals Chapters 15 16 are analyzed at ambient conditions as well as low and high temperature and high pressure Chapters 7 9 Characterization of magnetic structures remains a core application of neutron scattering Chapter 6 The analysis of neutron data is not trivial and crystallographic methods have been modified to take account of the complexities such as the Rietveld technique Chapter 4 and the pair distribution function Chapter 11 Information is not only obtained about solids but about liquids melts and aqueous solutions as well Chapters 11 13 In fact this field approached with inelastic scattering Chapter 10 and small angle scattering Chapter 13 is opening unprecedented opportunities for earth sciences Small angle scattering also contributes information about microstructures Chapter 14 Neutron diffraction has become a favorite method to quantify residual stresses in deformed materials Chapter 16 as well as preferred orientation patterns Chapter 15 The volume concludes with a short introduction into neutron tomography and radiography that may well emerge as a principal application of neutron scattering in the future Chapter 17

Advances in Imaging and Electron Physics, 2012-07-02 This special volume of Advances in Imaging and Electron Physics details the current theory experiments and applications of neutron and x ray optics and microscopy for an international readership across varying backgrounds and disciplines Edited by Dr Ted Cremer these volumes attempt to provide rapid assimilation of the presented topics that include neutron and x ray scatter refraction diffraction and reflection and their potential application Contributions from leading authorities Informs and updates on all the latest developments in the field

[Encyclopedia of Supramolecular Chemistry - Two-Volume Set \(Print\)](#) Jerry L. Atwood, Jonathan W. Steed, 2013-10-09 The two volume Encyclopedia of Supramolecular Chemistry offers authoritative centralized information on a rapidly expanding interdisciplinary field User friendly and high quality articles parse the latest supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics Designed for specialists and

students alike the set covers the fundamentals of supramolecular chemistry and sets the standard for relevant future research

Structural Characterization Techniques Lorenzo Malavasi, 2016-10-14 This book presents state of the art contributions related to advanced structural characterization techniques in the field of clean energy materials with particular emphasis on solid oxide fuel cells and hydrogen storage materials It describes several diffraction and spectroscopic techniques for the investigation of both average and local structures with several examples of the most recent materials for clean energy applications It is the first authoritative collection of contributions on the importance of the application of the most advanced structural techniques to shed light on the properties and mechanisms of materials currently investigated for the use in alternative energy devices The book provides key techniques for ex situ and in situ investigation of clean energy materials and hence is an essential guide for researchers working on the structural analysis of advanced materials

Transition Metal Oxides for Electrochemical Energy Storage Jagjit Nanda, Veronica Augustyn, 2022-03-28 Transition Metal Oxides for Electrochemical Energy Storage Explore this authoritative handbook on transition metal oxides for energy storage Metal oxides have become one of the most important classes of materials in energy storage and conversion They continue to have tremendous potential for research into new materials and devices in a wide variety of fields Transition Metal Oxides for Electrochemical Energy Storage delivers an insightful concise and focused exploration of the science and applications of metal oxides in intercalation based batteries solid electrolytes for ionic conduction pseudocapacitive charge storage transport and 3D architectures and interfacial phenomena and defects The book serves as a one stop reference for materials researchers seeking foundational and applied knowledge of the titled material classes Transition Metal Oxides offers readers in depth information covering electrochemistry morphology and both in situ and in operando characterization It also provides novel approaches to transition metal oxide enabled energy storage like interface engineering and three dimensional nanoarchitectures Readers will also benefit from the inclusion of A thorough introduction to the landscape and solid state chemistry of transition metal oxides for energy storage An exploration of electrochemical energy storage mechanisms in transition metal oxides including intercalation pseudocapacitance and conversion Practical discussions of the electrochemistry of transition metal oxides including oxide electrolyte interfaces and energy storage in aqueous electrolytes An examination of the characterization of transition metal oxides for energy storage Perfect for materials scientists electrochemists inorganic chemists and applied physicists Transition Metal Oxides for Electrochemical Energy Storage will also earn a place in the libraries of engineers in power technology and professions working in the electrotechnical industry seeking a one stop reference on transition metal oxides for energy storage

Proton-Conducting Ceramics Mathieu Marrony, 2015-10-09 This book proposes a wide overview of the research and development of proton conducting solid oxide materials It is the first to approach the topic on proton conducting ceramics and presents analysis studies from the fundamental to the most promising applied domains It describes theoretical studies to enhance understanding of proton

transport mechanism *Atomic Diffusion in Glasses Studied with Coherent X-Rays* Manuel Ross, 2016-01-13 This thesis provides the first successful study of jump diffusion processes in glasses on the atomic scale utilizing a novel coherent technique This new method called atomic scale X ray Photon Correlation Spectroscopy or aXPCS has only recently been proven to be able to capture diffusion processes with atomic resolution in crystal systems With this new toolkit for studying atomic diffusion in amorphous systems new insight into basic processes in a wide range of technically relevant materials like fast ionic conductors can be obtained **Applications of Neutron Powder Diffraction** Erich H. Kisi, Christopher J.

Howard, 2012-09-27 This is the first book covering the theory practicalities and the extensive applications of neutron powder diffraction in materials science physics chemistry mineralogy and engineering The broad coverage should be accessible to graduate students and senior undergraduates in science and engineering as well as lecturers and researchers **Neutron**

Scattering G. Kostorz, 2013-10-22 Treatise on Materials Science and Technology Volume 15 Neutron Scattering shows how neutron scattering methods can be used to obtain important information on materials The book discusses the general principles of neutron scattering the techniques used in neutron crystallography and the applications of nuclear and magnetic scattering The text also describes the measurement of phonons their role in phase transformations and their behavior in the presence of crystal defects and quasi elastic scattering with its special merits in the study of microscopic dynamical phenomena in solids and liquids Special materials problems in neutron devices are also considered Materials scientists solid state physicists physical chemists and metallurgists will find the book invaluable **Electrochemical Energy Systems**

Artur Braun, 2018-12-03 This book is for anyone interested in renewable energy for a sustainable future of mankind Batteries fuel cells capacitors electrolyzers and solar cells are explained at the molecular level and at the power plant level in their historical development in their economical and political impact and social change Cases from geophysics and astronomy show that electrochemistry is not confined to the small scale Examples are shown and exercised **Inorganic Membranes: Synthesis, Characterization and Applications** Reyes Mallada, Miguel Menéndez, 2008-05-01 Approx 480 pages Approx 480 pages

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