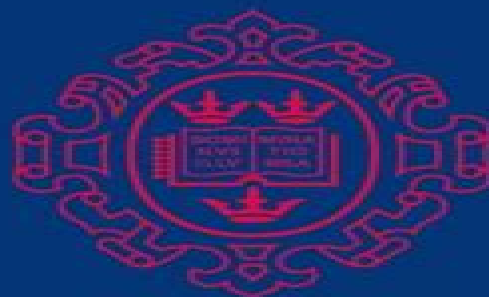


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Quasielastic Neutron Scattering and Solid State Diffusion

ROLF HEMPELMANN



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Quasielastic Neutron Scattering And Solid State Diffusion

Thomas Griffiths



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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 Quasielastic Neutron Scattering and Solid State Diffusion Rolf Hempelmann, 2000 Quasielastic neutron scattering has made many important contributions to the atomistic elucidation of diffusion processes in solids The aim of this book is to inform researchers in solid state physics solid state chemistry and inorganic materials science of the potential of quasielastic neutron scattering The book has been written for experimentalists and contains in its first part the theoretical background on neutrons neutron scattering and solid state diffusion which is essential for the proper use of quasielastic neutron scattering This general part should be useful for non experts in the field of neutron scattering and diffusion as well The second part of the book addresses the experts in this vivid field of research It summarizes the scientific applications of quasielastic neutron scattering to special solid state materials systems as for example to hydrogen in metals or to diffusion in solid state ionic conductors 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 *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 Quasi-Elastic Neutron Scattering Conference 2006 (QENS2006) Paul E. Sokol, H. Kaiser, David Baxter, Roger Pynn, D. Bosse, Mark Leuschner, 2007

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