



Neutron Scattering From Magnetic Materials

Hans Rudolf Wenk



Neutron Scattering From Magnetic Materials:

Neutron Scattering from Magnetic Materials Tapan Chatterji, 2005-11-29 Neutron Scattering from Magnetic Materials is a comprehensive account of the present state of the art in the use of the neutron scattering for the study of magnetic materials. The chapters have been written by well known researchers who are at the forefront of this field and have contributed directly to the development of the techniques described. Neutron scattering probes magnetic phenomena directly. The generalized magnetic susceptibility which can be expressed as a function of wave vector and energy contains all the information there is to know about the statics and dynamics of a magnetic system and this quantity is directly related to the neutron scattering cross section. Polarized neutron scattering techniques raise the sophistication of measurements to even greater levels and gives additional information in many cases. The present book is largely devoted to the application of polarized neutron scattering to the study of magnetic materials. It will be of particular interest to graduate students and researchers who plan to investigate magnetic materials using neutron scattering. Written by a group of scientists who have contributed directly in developing the techniques described. A complete treatment of the polarized neutron scattering not available in literature. Gives practical hints to solve magnetic structure and determine exchange interactions in magnetic solids. Application of neutron scattering to the study of the novel electronic materials.

Neutron Diffraction of Magnetic Materials Izyumov, V.E. Naish, R.P. Ozerov, 2012-12-06 Determination of the magnetic structure of magnetic materials is a fundamental problem that can be solved by magnetic neutron diffraction techniques. By magnetic structures we refer to the mutual alignment of the magnetic moments of the atoms in a crystal and their overall alignment relative to the crystallographic axes. Some indirect tentative data on the magnetic structure of magnetic materials can be obtained from research on their magnetic mechanical thermal and other properties. But only neutron diffraction is a unique direct method of determining the magnetic structure of a crystal. The magnetic structure of more than one thousand crystals with magnetic order has been studied during 30 years of neutron diffraction research made on reactors in a large number of laboratories in the world. The results of this research work are extensively described in the handbook Magnetic Structures Determined by Neutron Diffraction. 176. In the present book we will often refer to this handbook. The first extensive theoretical generalization of the principles of magnetic neutron diffraction and the results of research on magnetic structures appeared in the book by Yu. A. Izyumov and R. P. Ozerov. Magnetic Neutron Diffraction. 24-134.

Modern Techniques for Characterizing Magnetic Materials Yimei Zhu, 2005-04-20 Modern Techniques for Characterizing Magnetic Materials provides an extensive overview of novel characterization tools for magnetic materials including neutron photon and electron scatterings and other microscopy techniques by world renowned scientists. This interdisciplinary reference describes all available techniques to characterize and to understand magnetic materials techniques that cover a wide range of length scales and belong to different scientific communities. The diverse contributions enhance cross discipline communication while also identifying both

the drawbacks and advantages of different techniques which can result in deriving effective combinations of techniques that are especially fruitful at nanometer scales It will be a valuable resource for all graduate students researchers engineers and scientists who are interested in magnetic materials including their crystal structure electronic structure magnetization dynamics and their associated magnetic properties and underlying magnetism

Magnetic Neutron Diffraction Yuri A. Izyumov, 2012-12-06 The interaction between the magnetic field generated by the neutron and the magnetic moment of atoms containing unpaired electrons was experimentally demonstrated for the first time about twenty years ago The basic theory describing such an interaction had already been developed and the first nuclear reactors with large available thermal neutron fluxes had recently been constructed The power of the magnetic neutron interaction for investigating the structure of magnetic materials was immediately recognized and put to use where possible Neutron diffraction however was practicable only in countries with nuclear reactors The earliest neutron determinations of magnetic ordering were hence primarily carried out at Oak Ridge and Brookhaven in the US at Chalk River in Canada and at Harwell in England Diffraction patterns from polycrystalline ferromagnets and antiferromagnets are interpretable if produced by simple spin arrays More complex magnetic scattering patterns could often be unravelled in terms of a three dimensional array of atomic moments if the specimen studied is a single crystal The development of sophisticated cryogenic equipment with independently alignable magnetic fields opened the way to greater complexity in the magnetic structures that could be successfully determined as did also the introduction of polarized neutron beams By the end of the sixties many countries were contributing significantly to neutron diffraction studies of a wide variety of magnetic materials

X-ray and Neutron Scattering from Magnetic Materials, 1989

Magnetic Neutron Diffraction I. A. Izyumov, Ruslan Pavlovich Ozerov, 1970 The interaction between the magnetic field generated by the neutron and the magnetic moment of atoms containing unpaired electrons was experimentally demonstrated for the first time about twenty years ago The basic theory describing such an interaction had already been developed and the first nuclear reactors with large available thermal neutron fluxes had recently been constructed The power of the magnetic neutron interaction for investigating the structure of magnetic materials was immediately recognized and put to use where possible Neutron diffraction however was practicable only in countries with nuclear reactors The earliest neutron determinations of magnetic ordering were hence primarily carried out at Oak Ridge and Brookhaven in the US at Chalk River in Canada and at Harwell in England Diffraction patterns from polycrystalline ferromagnets and antiferromagnets are interpretable if produced by simple spin arrays More complex magnetic scattering patterns could often be unravelled in terms of a three dimensional array of atomic moments if the specimen studied is a single crystal The development of sophisticated cryogenic equipment with independently alignable magnetic fields opened the way to greater complexity in the magnetic structures that could be successfully determined as did also the introduction of polarized neutron beams By the end of the sixties many countries were contributing significantly to neutron diffraction

studies of a wide variety of magnetic materials X-ray and Neutron Scattering from Magnetic Materials ,1989

Nanoscale Magnetic Materials and Applications J. Ping Liu, Eric Fullerton, Oliver Gutfleisch, D.J. Sellmyer, 2010-04-05
Nanoscale Magnetic Materials and Applications covers exciting new developments in the field of advanced magnetic materials. Readers will find valuable reviews of the current experimental and theoretical work on novel magnetic structures, nanocomposite magnets, spintronic materials, domain structure and domain wall motion, in addition to nanoparticles and patterned magnetic recording media. Cutting edge applications in the field are described by leading experts from academic and industrial communities. These include new devices based on domain wall motion, magnetic sensors derived from both giant and tunneling magnetoresistance thin film devices in micro electromechanical systems and nanoparticle applications in biomedicine. In addition to providing an introduction to the advances in magnetic materials and applications at the nanoscale, this volume also presents emerging materials and phenomena such as magnetocaloric and ferromagnetic shape memory materials which motivate future development in this exciting field. **Nanoscale Magnetic Materials and Applications** also features a foreword written by Peter Gruber, recipient of the 2007 Nobel Prize in Physics **Pulsed neutron scattering from magnetic materials** Kō-enerugī Butsurigaku Kenkyūjo (Japan), 1991 **New Art from China, Post 1989** ,

Magnetic Small-Angle Neutron Scattering Andreas Michels, 2021 The book presents the first extensive treatment of magnetic small angle neutron scattering (SANS) enabling advanced students and researchers to make efficient use of the method and to analyze and interpret their SANS experiments **Magnetic Neutron Scattering: Proceedings Of The Third Summer School On Neutron Scattering** Albert Furrer, 1995-10-12 The proceedings provide a topical survey of the static and dynamical magnetic properties of condensed matter studied by neutron scattering which has been the key technique in this field for a long time. The static aspects deal with the determination of long range ordered spin structures and magnetization densities. The dynamic aspects concentrate on the determination of magnetic excitations such as spin waves and crystal field transitions. The use of polarized neutron techniques is particularly emphasized. All these topics are thoroughly introduced, methodically discussed and highlighted with recent experimental results obtained for a vast variety of magnetic materials, e.g. strongly correlated electron systems, multilayers, nanocrystals, molecular complexes etc. by acknowledged experts. Other experimental methods, x-ray scattering, muon spin rotation in the study of magnetism are compared to neutron scattering **Proceedings of the workshop on pulsed neutron scattering from magnetic materials** , 1991 *Neutron Scattering - Magnetic and Quantum Phenomena* , 2015-11-29 *Neutron Scattering Magnetic and Quantum Phenomena* provides detailed coverage of the application of neutron scattering in condensed matter research. The book's primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required to carry them out, write a successful proposal for one of the major user facilities and perform the experiments under the guidance of the

appropriate instrument scientist An earlier series edited by Kurt Skold and David L Price and published in the 1980s by Academic Press as three volumes in the series Methods of Experimental Physics was very successful and remained the standard reference in the field for several years This present work has similar goals taking into account the advances in experimental techniques over the past quarter century for example neutron reflectivity and spin echo spectroscopy and techniques for probing the dynamics of complex materials of technological relevance This volume complements Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013 Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena including superconductivity multiferroics and nanomagnetism Presents up to date reviews of recent results aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez Alonso Eds Neutron Scattering Fundamentals published in November 2013

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

Neutron-scattering Studies of Frustrated Magnetic Materials Joseph A. M. Paddison, 2015

Introduction to Magnetism and Magnetic Materials David Jiles, 2015-09-18 A long overdue update this edition of *Introduction to Magnetism and Magnetic Materials* is a complete revision of its predecessor While it provides relatively minor updates to the first two sections the third section contains vast updates to reflect the enormous progress made in applications in the past 15 years particularly in magnetic recording

Neutron Scattering In Condensed Matter Physics Albert Furrer, Joel F Mesot, Thierry Straessle, 2009-05-22 Neutron scattering has become a key technique for investigating the

properties of materials on an atomic scale The uniqueness of this method is based on the fact that the wavelength and energy of thermal neutrons ideally match interatomic distances and excitation energies in condensed matter and thus neutron scattering is able to directly examine the static and dynamic properties of the material In addition neutrons carry a magnetic moment which makes them a unique probe for detecting magnetic phenomena In this important book an introduction to the basic principles and instrumental aspects of neutron scattering is provided and the most important phenomena and materials properties in condensed matter physics are described and exemplified by typical neutron scattering experiments with emphasis on explaining how the relevant information can be extracted from the measurements **Handbook of Magnetic**

Materials ,2016-11-15 Handbook of Magnetic Materials covers the expansion of magnetism over the last few decades and its applications in research notably the magnetism of several classes of novel materials that share with truly ferromagnetic materials the presence of magnetic moments The book is an ideal reference for scientists active in magnetism research providing readers with novel trends and achievements in magnetism Each article contains an extensive description given in graphical and tabular form with much emphasis placed on the discussion of the experimental material within the framework of physics chemistry and material science Comprises topical review articles written by leading authorities Includes a variety of self contained introductions to a given area in the field of magnetism without requiring recourse to the published literature Introduces given topics in the field of magnetism Describes novel trends and achievements in magnetism **Neutron**

Scattering and Other Nuclear Techniques for Hydrogen in Materials Helmut Fritzsche,Jacques Huot,Daniel Fruchart,2016-04-22 This book provides a comprehensive overview of the main nuclear characterization techniques used to study hydrogen absorption and desorption in materials The various techniques neutron scattering nuclear magnetic resonance ion beams positron annihilation spectroscopy are explained in detail and a variety of examples of recent research projects are given to show the unique advantage of these techniques to study hydrogen in materials Most of these nuclear techniques require very specialized instrumentation and there are only a handful of these instruments available worldwide Therefore the aim of this book is to reach out to a readership with a very diverse background in the physical sciences and engineering and a broad range of hydrogen related research interests The same technique can be used by researchers interested in the improvement of the performance of hydrogen storage materials and by those focused on hydrogen ingress causing embrittlement of metals The emphasis of this book is to provide tutorial material on how to use nuclear characterization techniques for the investigation of hydrogen in materials information that cannot readily be found in conference and regular research papers Provides a comprehensive overview of nuclear techniques used for hydrogen related research Explains all nuclear techniques in detail for the non expert Covers the whole range of hydrogen related research Features chapters written by world renowned experts in nuclear technique and hydrogen related research

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