

Specular and off-specular reflection
of polarized neutrons
from magnetic thin films and multilayers



Robbert W.E. van de Kruijs



Specular Offspecular Reflection Of Polarized Neutrons From Magnetic Thin Films Multilayers

Yimei Zhu

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Specular and Off-specular Reflection of Polarized Neutrons from Magnetic Thin Films and Multilayers Robbert W. E. van de Kruijs, 2002-01-01 **Fundamentals of Low Dimensional Magnets** Ram K. Gupta, Sanjay R. Mishra, Tuan Anh Nguyen, 2022-08-29

A low dimensional magnet is a key to the next generation of electronic devices In some respects low dimensional magnets refer to nanomagnets nanostructured magnets or single molecule magnets molecular nanomagnets They also include the group of magnetic nanoparticles which have been widely used in biomedicine technology industries and environmental remediation Low dimensional magnetic materials can be used effectively in the future in powerful computers hard drives magnetic random access memory ultra low power consumption switches etc The properties of these materials largely depend on the doping level phase defects and morphology This book covers various nanomagnets and magnetic materials The basic concepts various synthetic approaches characterizations and mathematical understanding of nanomaterials are provided Some fundamental applications of 1D 2D and 3D materials are covered This book provides the fundamentals of low dimensional magnets along with synthesis theories structure property relations and applications of ferromagnetic nanomaterials This book broadens our fundamental understanding of ferromagnetism and mechanisms for realization and advancement in devices with improved energy efficiency and high storage capacity *Magnetic*

Characterization Techniques for Nanomaterials Challa S.S.R. Kumar, 2017-04-24 Sixth volume of a 40 volume series on nanoscience and nanotechnology edited by the renowned scientist Challa S S R Kumar This handbook gives a comprehensive overview about Magnetic Characterization Techniques for Nanomaterials Modern applications and state of the art techniques are covered and make this volume an essential reading for research scientists in academia and industry **Low-Angle**

Polarized Neutron and X-Ray Scattering from Magnetic Nanolayers and Nanostructures Amitesh Paul, 2017-08-12 This research monograph presents the latest results related to the characterization of low dimensional systems Low angle polarized neutron scattering and X ray scattering at grazing incidence are used as the two main techniques to explore various physical phenomena of these systems Special focus is put on systems like thin film transition metal and rare earth layers oxide heterostructures hybrid systems self assembled nanostructures and self diffusion Readers will gain in depth knowledge about the usage of specular scattering and off specular scattering techniques Investigation of in plane and out of plane structures and magnetism with vector magnetometric information is illustrated comprehensively The book caters to a wide audience working in the field of nano dimensional magnetic systems and the neutron and X ray reflectometry community in particular **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

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□) Sellmyer,2005 **Neutron Scattering** Thomas Brückel,2007 **X-ray and Neutron Reflectivity** Jean Daillant,Alain Gibaud,2008-11-21 ways in which the magnetic interaction between neutrons and magnetic moments can yield information on the magnetization densities of thin lms and multilayers I commend the organizers for having organized a group of expert lecturers to present this subject in a detailed but clear fashion as the importance of the subject deserves Argonne IL S K Sinha Contents 1 The Interaction of X Rays and Neutrons with Matter 1 F de Bergevin 1 1 Introduction 1 1 2 Generalities and De nitions 2 1 3 From the Scattering by an Object to the Propagation in a Medium 14 1 4 X Rays 26 1 5 X Rays Anisotropic Scattering 47 1 A Appendix the Born Approximation 54 References 56 2 Statistical Aspects of Wave Scattering at Rough Surfaces 59 A Sentenac and J Daillant 2 1 Introduction 59 2 2 Description of Randomly Rough Surfaces 60 2 3 Description of a Surface Scattering Experiment Coherence Domains 67 2 4 Statistical Formulation of the Diffraction Problem 72 2 5 Statistical Formulation of the Scattered Intensity Under the Born Approximation 79 References 84 3 Specular Re ectivity from Smooth and Rough Surfaces 85 A Gibaud and G Vignaud 3 1 The Re ected Intensity from an Ideally Flat Surface 85 3 2 X Ray Re ectivity in Strati ed Media 98 3 3 From Dynamical to Kinematical Theory 107 3 4 In uence of the Roughness on the Matrix Coef cients 111 3 A Appendix The Treatment of Roughness in Specular Re ectivity 113 3 B Appendix Inversion of re ectivity data **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 **Handbook of Neutron Optics** Masahiko Utsuro,Vladimir K. Ignatovich,2010-01-12 Written by authors with an international reputation acknowledged expertise and teaching experience this is the most up to date resource on the field The text is clearly structured throughout so as to be readily accessible and

begins by looking at scattering of a scalar particle by one dimensional systems The second section deals with the scattering of neutrons with spin in one dimensional potentials while the third treats dynamical diffraction in three dimensional periodic media The final two sections conclude with incoherent and small angle scattering and some problems of quantum mechanics With its treatment of the theories experiments and applications involved in neutron optics this relevant reading for nuclear physicists and materials scientists alike

Handbook of Magnetism and Advanced Magnetic Materials, 5 Volume Set Helmut Kronmüller, Stuart Parkin, 2007-09-11 From the first application of the oxide magnetite as a compass in China in ancient times and from the early middle ages in Europe magnetic materials have become an indispensable part of our daily life Magnetic materials are used ubiquitously in the modern world in fields as diverse as for example electrical energy transport high power electro motors and generators telecommunication systems navigation equipment aviation and space operations micromechanical automation medicine magnetocaloric refrigeration computer science high density recording non destructive testing of materials and in many household applications Research in many of these areas continues apace The progress made in recent years in computational sciences and advanced material preparation techniques has dramatically improved our knowledge of fundamental properties and increased our ability to produce materials with highly tailored magnetic properties even down to the nanoscale dimension Containing approximately 120 chapters written and edited by acknowledged world leaders in the field The Handbook of Magnetism and Advanced Magnetic Materials provides a state of the art comprehensive overview of our current understanding of the fundamental properties of magnetically ordered materials and their use in a wide range of sophisticated applications The Handbook is published in five themed volumes as follows Volume 1 Fundamentals and Theory Volume 2 Micromagnetism Volume 3 Novel Techniques for Characterizing and Preparing Samples Volume 4 Novel Materials Volume 5 Spintronics and Magnetoelectronics

Handbook of Advanced Magnetic Materials Yi Liu, D.J. Sellmyer, Daisuke Shindo, 2008-11-23 In December 2002 the world's first commercial magnetic levitation super train went into operation in Shanghai The train is held just above the rails by magnetic levitation maglev and can travel at a speed of 400 km/hr completing the 30km journey from the city to the airport in minutes Now consumers are enjoying 50 GB hard drives compared to 0.5 GB hard drives ten years ago Achievements in magnetic materials research have made dreams of a few decades ago reality The objective of the four volume reference Handbook of Advanced Magnetic Materials is to provide a comprehensive review of recent progress in magnetic materials research Each chapter will have an introduction to give a clear definition of basic and important concepts of the topic The details of the topic are then elucidated theoretically and experimentally New ideas for further advancement are then discussed Sufficient references are also included for those who wish to read the original work In the last decade one of the most significant thrust areas of materials research has been nanostructured magnetic materials There are several critical sizes that control the behavior of a magnetic material and size effects become especially critical when dimensions approach a few nanometers

where quantum phenomena appear The first volume of the book Nanostructured Advanced Magnetic Materials has therefore been devoted to the recent development of nanostructured magnetic materials emphasizing size effects Our understanding of magnetism has advanced with the establishment of the theory of atomic magnetic moments and itinerant magnetism Simulation is a powerful tool for exploration and explanation of properties of various magnetic materials Simulation also provides insight for further development of new materials Naturally before any simulation can be started a model must be constructed This requires that the material be well characterized Therefore the second volume Characterization and Simulation provides a comprehensive review of both experimental methods and simulation techniques for the characterization of magnetic materials After an introduction each section gives a detailed description of the method and the following sections provide examples and results of the method Finally further development of the method will be discussed The success of each type of magnetic material depends on its properties and cost which are directly related to its fabrication process Processing of a material can be critical for development of artificial materials such as multilayer films clusters etc Moreover cost effective processing usually determines whether a material can be commercialized In recent years processing of materials has continuously evolved from improvement of traditional methods to more sophisticated and novel methods The objective of the third volume Processing of Advanced Magnetic Materials is to provide a comprehensive review of recent developments in processing of advanced magnetic materials Each chapter will have an introduction and a section to provide a detailed description of the processing method The following sections give detailed descriptions of the processing properties and applications of the relevant materials Finally the potential and limitation of the processing method will be discussed The properties of a magnetic material can be characterized by intrinsic properties such as anisotropy saturation magnetization and extrinsic properties such as coercivity The properties of a magnetic material can be affected by its chemical composition and processing route With the continuous search for new materials and invention of new processing routes magnetic properties of materials cover a wide spectrum of soft magnetic materials hard magnetic materials recording materials sensor materials and others The objective of the fourth volume Properties and Applications of Advanced Magnetic Materials is to provide a comprehensive review of recent development of various magnetic materials and their applications Each chapter will have an introduction of the materials and the principles of their applications The following sections give a detailed description of the processing properties and applications Finally the potential and limitation of the materials will be discussed

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 Nanostructures Bekir Aktas,Lenar Tagirov,Faik Mikailov,2007-03-06 This volume addresses the exciting and rapidly developing topic of ultrahigh density magnetic data storage It is the most advanced book on magnetic nanostructures basics and applications It combines modern topics in nanomagnetism with issues relating to the fabrication and characterization of magnetic nanostructures This book will be of interest to R and D scientists and it provides an accessible introduction to the essential issues *The Science Reports of the Tōhoku University* ,2001 Includes Annual reports for the Physics and Astronomy Departments **Chemical Abstracts** ,2002 **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 **Handbook of Modern Coating Technologies** Mahmood Aliofkhazraei,Ali Nasar,Mircea Chipara,Nadhira Bensaada Laidani,Jeff Th.M. De Hosson,2021-03-06 Handbook of Modern Coating Technologies Advanced Characterization Methods reviews advanced characterization methods of modern coating technologies The topics in this volume consist of scanning vibrating electrode technique spectroscopic ellipsometry advances in X ray diffraction neutron reflectivity micro and nanoprobe fluorescence technique stress measurement methods in thin films micropotentiometry and localized corrosion studies Solid State Physics ,2014-05-15 Solid state physics is the branch of physics primarily devoted to the study of matter in its solid phase especially at the atomic level This prestigious

serial presents timely and state of the art reviews pertaining to all aspects of solid state physics Contributions from leading authorities Informs and updates on all the latest developments in the field **Advances in Neutron Scattering Research**
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