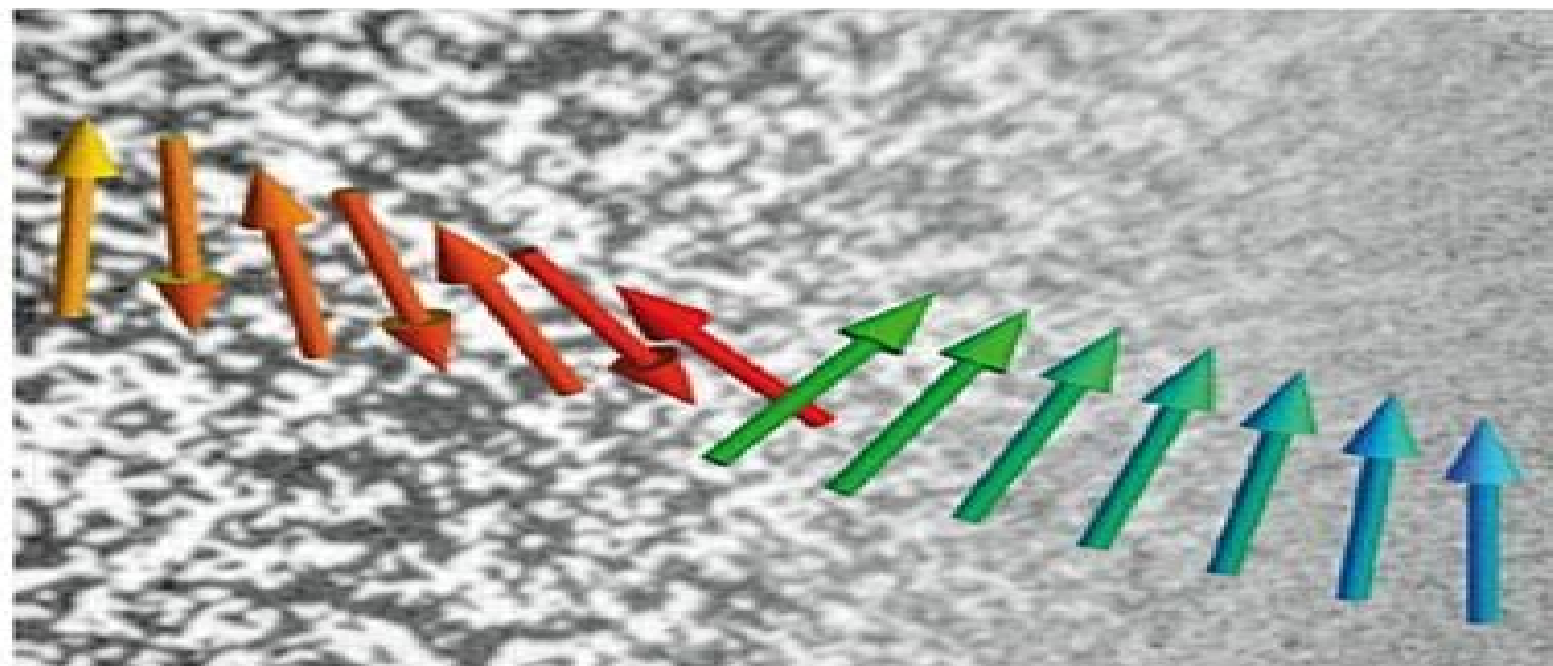


Edited by Lamberto Duò, Marco Finazzi, and Franco Ciccacci

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# Magnetic Properties of Antiferromagnetic Oxide Materials

Surfaces, Interfaces, and Thin Films



# Magnetic Properties Of Antiferromagnetic Oxide Materials Surfaces Interfaces And Thin Films

**Satishchandra B. Ogale**



## **Magnetic Properties Of Antiferromagnetic Oxide Materials Surfaces Interfaces And Thin Films:**

*Magnetic Properties of Antiferromagnetic Oxide Materials* Lamberto Duò, Marco Finazzi, Franco Ciccacci, 2010-04-16 This first focused treatment on a hot topic highlights fundamental aspects as well as technological applications arising from a fascinating area of condensed matter physics The editors have excellent track records and in light of the broadness of the topic retain the focus on antiferromagnetic oxides They thus cover such topics as dichroism in x ray absorption non magnetic substrates exchange bias ferromagnetic antiferromagnetic interface coupling and oxide multilayers as well as imaging using soft x ray microscopy The result is a very timely monograph for solid state physicists and chemists materials scientists electrical engineers physicists in industry physical laboratory technicians and suppliers of sensors **Oxide Ultrathin**

**Films** Gianfranco Pacchioni, Sergio Valeri, 2012-09-19 A wealth of information in one accessible book Written by international experts from multidisciplinary fields this in depth exploration of oxide ultrathin films covers all aspects of these systems starting with preparation and characterization and going on to geometrical and electronic structure as well as applications in current and future systems and devices From the Contents Synthesis and Preparation of Oxide Ultrathin Films Characterization Tools of Oxide Ultrathin Films Ordered Oxide Nanostructures on Metal Surfaces Unusual Properties of Oxides and Other Insulators in the Ultrathin Limit Silica and High K Dielectrics Thin Films in Microelectronics Oxide Passive Films and Corrosion Protection Oxide Films as Catalytic Materials and as Models of Real Catalysts Oxide Films in Spintronics Oxide Ultrathin Films in Solid Oxide Fuel Cells Transparent Conducting and Chromogenic Oxide Films as Solar Energy Materials Oxide Ultrathin Films in Sensor Applications Ferroelectricity in Ultrathin Film Capacitors Titania Thin Films in Biocompatible Materials and Medical Implants Oxide Nanowires for New Chemical Sensor Devices **Functional Metal Oxides** Satishchandra Balkrishna Ogale, T. Venky Venkatesan, Mark Blamire, 2013-11-08 Functional oxides are used both as insulators and metallic conductors in key applications across all industrial sectors This makes them attractive candidates in modern technology they make solar cells cheaper computers more efficient and medical instrumentation more sensitive Based on recent research experts in the field describe novel materials their properties and applications for energy systems semiconductors electronics catalysts and thin films This monograph is divided into 6 parts which allows the reader to find their topic of interest quickly and efficiently Magnetic Oxides Dopants Defects and Ferromagnetism in Metal Oxides Ferroelectrics Multiferroics Interfaces and Magnetism Devices and Applications This book is a valuable asset to materials scientists solid state chemists solid state physicists as well as engineers in the electric and automotive industries

**Perovskites and Related Mixed Oxides** Pascal Granger, Vasile I. Parvulescu, Serge Kaliaguine, Wilfrid Prellier, 2016-02-23 This comprehensive handbook and ready reference details all the main achievements in the field of perovskite based and related mixed oxide materials The authors discuss in an unbiased manner the potentials as well as the challenges related to their use thus offering new perspectives for research and development on both an academic and industrial level The first

volume begins by summarizing the different synthesis routes from molten salts at high temperatures to colloidal crystal template methods before going on to focus on the physical properties of the resulting materials and their related applications in the fields of electronics energy harvesting and storage as well as electromechanics and superconductivity The second volume is dedicated to the catalytic applications of perovskites and related mixed oxides including but not limited to total oxidation of hydrocarbons dry reforming of methane and denitrogenation The concluding section deals with the development of chemical reactors and novel perovskite based applications such as fuel cells and high performance ceramic membranes Throughout the contributions clearly point out the intimate links between structure properties and applications of these materials making this an invaluable tool for materials scientists and for catalytic and physical chemists *Handbook of Thin Films* Hari Singh Nalwa,2001-11-17 This five volume handbook focuses on processing techniques characterization methods and physical properties of thin films thin layers of insulating conducting or semiconductor material The editor has composed five separate thematic volumes on thin films of metals semimetals glasses ceramics alloys organics diamonds graphites porous materials noncrystalline solids supramolecules polymers copolymers biopolymers composites blends activated carbons intermetallics chalcogenides dyes pigments nanostructured materials biomaterials inorganic polymer composites organoceramics metallocenes disordered systems liquid crystals quasicrystals and layered structures Thin films is a field of the utmost importance in today s materials science electrical engineering and applied solid state physics with both research and industrial applications in microelectronics computer manufacturing and physical devices Advanced high performance computers high definition TV digital camcorders sensitive broadband imaging systems flat panel displays robotic systems and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques characterization methods and physical properties of these thin film materials **Cobalt Oxides** Bernard Raveau,Motin Seikh,2012-10-11 Unparalleled in the breadth and depth of its coverage of all important aspects this book systematically treats the electronic and magnetic properties of stoichiometric and non stoichiometric cobaltites in both ordered and disordered phases Authored by a pioneer and a rising star in the field the monograph summarizes organizes and streamlines the otherwise difficult to obtain information on this topic An introductory chapter sets forth the crystal chemistry of cobalt oxides to lay the groundwork for an understanding of the complex phenomena observed in this materials class Special emphasis is placed on a comprehensive discussion of cobaltite physical properties in different structural families Providing a thorough introduction to cobalt oxides from a chemical and physical viewpoint as a basis for understanding their intricacies this is a must have for both experienced researchers as well as entrants to the field Scientific and Technical Aerospace Reports ,1995-08 U.S. Government Research Reports ,1963 **Handbook of Materials Science, Volume 2** Raghumani S. Ningthoujam,A. K. Tyagi,2024-08-15 This book presents state of the art coverage of the basic concepts of

magnetization The book focuses on electron spin interaction electron spin magnetic field interactions with or without angular dependent magnetic properties with the dimension of particles or surrounding environment proximity effects on core shell structure or hybrid or composite and their applications It also discusses recent advances in magnetic materials and its future scope This book is of interest to students researchers and professionals working in the area of materials science especially magnetic materials and allied fields

**Oxide Spintronics** Tamalika Banerjee, 2019-05-28 Oxide materials have been used in mainstream semiconductor technology for several decades and have served as important components such as gate insulators or capacitors in integrated circuits However in recent decades this material class has emerged in its own right as a potential contender for alternative technologies generally designated as beyond Moore The 2004 discovery by Ohtomo and Hwang was a global trendsetter in this context It involved observing a two dimensional high mobility electron gas at the heterointerface between two insulating oxides  $\text{LaAlO}_3$  and  $\text{SrTiO}_3$  supported by the rise of nascent deposition and growth monitoring techniques which was an important direction in materials science research The quest to understand the origin of this unparalleled physical property and to find other emergent properties has been an active field of research in condensed matter that has united researchers with expertise in diverse fields such as thin film growth defect control advanced microscopy semiconductor technology computation magnetism and electricity spintronics nanoscience and nanotechnology

Interplay Between Magnetic and Dielectric Phenomena at Transition Metal Oxide Interfaces Daniel Schumacher, 2013

*Desiccation Cracks and their Patterns* Lucas Goehring, Akio Nakahara, Tapati Dutta, So Kitsunozaki, Sujata Tarafdar, 2016-03-09 Bringing together basic ideas classical theories recent experimental and theoretical aspects this book explains desiccation cracks from simple easily comprehensible cases to more complex applied situations The ideal team of authors combining experimental and theoretical backgrounds and with experience in both physical and earth sciences discuss how the study of cracks can lead to the design of crack resistant materials as well as how cracks can be grown to generate patterned surfaces at the nano and micro scales Important research and recent developments on tailoring desiccation cracks by different methods are covered supported by straightforward yet deep theoretical models Intended for a broad readership spanning physics materials science and engineering to the geosciences the book also includes additional reading especially for students engaged in pattern formation research

**A UHV Compatible SQUID Magnetometer System for Investigations in Surface, Interface, and Thin Film Magnetism** Stefano Spagna, 1995 *Handbook of Surfaces and Interfaces of Materials, Five-Volume Set* Hari Singh Nalwa, 2001-10-26 This handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research It covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on

surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers Biointerfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community The complete reference on the topic of surfaces and interfaces of materials The information presented in this multivolume reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the current status of the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques Contributions from internationally recognized experts from all over the world

**Thin Films and Heterostructures for Oxide Electronics** Satishchandra B. Ogale, 2005-11-21 Oxides form a broad subject area of research and technology development which encompasses different disciplines such as materials science solid state chemistry physics etc The aim of this book is to demonstrate the interplay of these fields and to provide an introduction to the techniques and methodologies involving film growth characterization and device processing The literature in this field is thus fairly scattered in different research journals covering one or the other aspect of the specific activity This situation calls for a book that will consolidate this information and thus enable a beginner as well as an expert to get an overall perspective of the field its foundations and its projected progress

**Quantum Theory of Magnetism** Robert M. White, 2007-01-23 Quantum Theory of Magnetism is the only book that deals with the phenomenon of magnetism from the point of view of linear response That is how does a magnetic material respond when excited by a magnetic field That field may be uniform or spatially varying static or time dependent Previous editions have dealt primarily with the magnetic response This edition incorporates the resistive response of magnetic materials as well It also includes problems to test the reader s or student s comprehension The rationale for a book on magnetism is as valid today as it was when the first two editions of Quantum Theory of Magnetism were published Magnetic phenomena continue to be discovered with deep scientific implications and novel applications Since the Second Edition for example Giant Magneto Resistance GMR was discovered and the new field of spintronics is currently expanding Not only do these phenomena rely on the concepts presented in this book but magnetic properties are often an important clue to our understanding of new materials e g high temperature superconductors Their magnetic properties studied by susceptibility measurements nuclear magnetic resonance

neutron scattering etc have provided insight to the superconductivity state This updated edition offers revised emphasis on some material as a result of recent developments and includes new material such as an entire chapter on thin film magnetic multilayers Researchers and students once again have access to an up to date classic reference on magnetism the key characteristic of many modern materials

**Oxide Thin Films and Nanostructures** Falko P. Netzer, Claudine Noguera, 2021 Oxide Thin Films and Nanostructures is an interdisciplinary approach to introduce readers to the field of oxide nano materials that is oxides of nano meter size and dimensions Emphasis is put to differentiate these nanoscale oxide objects from their solid bulk oxide parents and present their properties in a pedagogic way *Encyclopedia of Interfacial Chemistry*, 2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions *Functional Metal Oxide Nanostructures* Junqiao Wu, Jinbo Cao, Wei-Qiang Han, Anderson Janotti, Ho-Cheol Kim, 2011-09-22 Metal oxides and particularly their nanostructures have emerged as an important class of materials with a rich spectrum of properties and great potential for device applications In this book contributions from leading experts emphasize basic physical properties synthesis and processing and the latest applications in such areas as energy catalysis and data storage Functional Metal Oxide Nanostructures is an essential reference for any materials scientist or engineer with an interest in metal oxides and particularly in recent progress in defect physics strain effects solution based synthesis ionic conduction and their applications Surface and Interface Science, Volumes 9 and 10 Klaus Wandelt, 2020-03-30 In ten volumes this unique handbook covers all fundamental aspects of surface and interface science and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers Volume 1 Concepts and Methods Volume 2 Properties of Elemental Surfaces Volume 3 Properties of Composite Surfaces Alloys Compounds Semiconductors Volume 4 Solid Solid Interfaces and Thin Films Volume 5 Solid Gas Interfaces I Volume 6 Solid Gas Interfaces II Volume 7 Liquid and Biological Interfaces Volume 8 Interfacial Electrochemistry Volume 9 Applications of Surface Science I Volume 10 Applications of Surface Science II Content of Volumes 8 9 Surface Analytics with X Ray Photoelectron and Auger Electron Spectroscopy on Coated Steel Sheets Applications of Graphene Industrial Heterogeneous Catalysis Automotive Catalysis High Throughput Heterogeneous Catalyst Research Development Scale Up

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