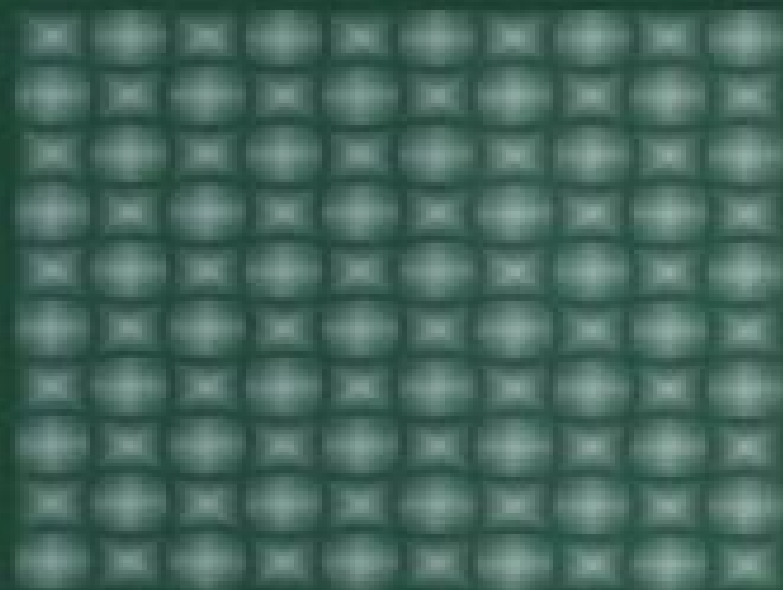


# COLOSSAL MAGNETORESISTIVE MANGANITES

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# Colossal Magnetoresistive Manganites

**Helmut Kronmüller, Stuart S. P. Parkin**

## **Colossal Magnetoresistive Manganites:**

**Colossal Magnetoresistive Manganites** Tapan Chatterji, 2012-12-06 The physics of transition metal oxides has become a central topic of interest to condensed matter scientists ever since high temperature superconductivity was discovered in hole doped cuprates with perovskite like structures Although the renewed interest in hole doped perovskite manganites following the discovery of their colossal magnetoresistance CMR properties began in 1993 about a decade after the discovery of high temperature superconductivity their first investigation started as early as 1950 and basic theoretical ideas were developed during 1951-1960 Experience in sample preparation and characterization and in growth of single crystals and epitaxial thin films gained during the research on high temperature superconductors and the development of theoretical tools were very efficiently used in research on CMR manganites In early nineties it appeared to many condensed matter physicists that although the problem of high temperature superconductivity is a difficult one to solve a quantitative understanding of CMR phenomena might be well within reach This book is intended to be an account of the latest developments in the physics of CMR manganites When I planned this book back in 2000 I thought that research on the physics of CMR manganites would be more or less consolidated by the time this would be published I was obviously very optimistic indeed We are now in 2003 and we still do not have a quantitative understanding of the central CMR effect Meanwhile the field has expanded It is still a very active field of research on both the experimental and theoretical fronts

## **Colossal Magnetoresistive Oxides**

Yoshinori Tokura, 2000-05-30 The features and mechanism of Colossal Magnetoresistance or CMR in manganese oxides as well as device physics are highlighted in this book with a focus on tunneling MR for some artificial structures Underlying new science such as tunable electron lattice interaction in a metal and roles of orbital degrees of freedom in producing an unconventional

**Polarons in Advanced Materials** Alexandre S. Alexandrov, 2008-01-11 This book first introduces a single polaron and describes recent achievements in analytical and numerical studies of polaron properties in different e-ph models It then describes multi polaron physics as well as many key physical properties of high temperature superconductors colossal magnetoresistance oxides conducting polymers and molecular nanowires which were understood with polarons and bipolarons

**Epitaxial Growth of Complex Metal Oxides** Gertjan Koster, Mark Huijben, Guus Rijnders, 2022-04-22 Epitaxial Growth of Complex Metal Oxides Second Edition reviews techniques and recent developments in the fabrication quality of complex metal oxides which are facilitating advances in electronic magnetic and optical applications Sections review the key techniques involved in the epitaxial growth of complex metal oxides and explore the effects of strain and stoichiometry on crystal structure and related properties in thin film oxides Finally the book concludes by discussing selected examples of important applications of complex metal oxide thin films including optoelectronics batteries spintronics and neuromorphic applications This new edition has been fully updated with brand new chapters on topics such as atomic layer deposition interfaces STEM EELs and the epitaxial growth of multiferroics ferroelectrics and nanocomposites Examines the

techniques used in epitaxial thin film growth for complex oxides including atomic layer deposition sputtering techniques molecular beam epitaxy and chemical solution deposition techniques Reviews materials design strategies and materials property analysis methods including the impacts of defects strain interfaces and stoichiometry Describes key applications of epitaxially grown metal oxides including optoelectronics batteries spintronics and neuromorphic applications Magnetic Nanostructured Materials Ahmed A. El Gendy, Jose Manuel Barandiaran, Ravi L. Hadimani, 2018-06-29 Magnetic Nanostructured Materials From Lab to Fab presents a complete overview of the translation of nanostructured materials into realistic applications drawing on the most recent research in the field to discuss the fundamentals synthesis and characterization of nanomagnetism A wide spectrum of nanomagnetic applications is included covering industrial environmental and biomedical fields and using chemical physical and biological methods Materials such as Fe Co CoxC MnGa GdSi ferrite nanoparticles and thin films are highlighted with their potential applications discussed such as magnetic refrigeration energy harvesting magnetic sensors hyperthermia MRI drug delivery permanent magnets and data storage devices Offering interdisciplinary knowledge on the materials science of nanostructured materials and magnetism this book will be of interest to researchers in materials science engineering physics and chemistry with interest in magnetic nanomaterials as well as postgraduate students and professionals in industry and government Provides interdisciplinary knowledge on the materials science of nanostructured materials and magnetism Aids in the understanding of complex fundamentals and synthesis methods for magnetic nanomaterials Includes examples of real applications Shows how laboratory work on magnetic nanoparticles connects to industrial implementation and applications **Spintronics Handbook, Second Edition: Spin Transport and Magnetism** Evgeny Y. Tsybal, Igor Žutić, 2019-05-20 The second edition offers an update on the single most comprehensive survey of the two intertwined fields of spintronics and magnetism covering the diverse array of materials and structures including silicon organic semiconductors carbon nanotubes graphene and engineered nanostructures It focuses on seminal pioneering work together with the latest in cutting edge advances notably extended discussion of two dimensional materials beyond graphene topological insulators skyrmions and molecular spintronics The main sections cover physical phenomena spin dependent tunneling control of spin and magnetism in semiconductors and spin based applications Disorder and Strain-Induced Complexity in Functional Materials Tomoyuki Kakeshita, Takashi Fukuda, Avadh Saxena, Antoni Planes, 2011-10-27 This book brings together an emerging consensus on our understanding of the complex functional materials including ferroics perovskites multiferroics CMR and high temperature superconductors The common theme is the existence of many competing ground states and frustration as a collusion of spin charge orbital and lattice degrees of freedom in the presence of disorder and both dipolar and elastic long range forces An important consequence of the complex unit cell and the competing interactions is that the emergent materials properties are very sensitive to external fields thus rendering these materials with highly desirable technologically important applications

enabled by cross response      **Metallic Films for Electronic, Optical and Magnetic Applications** Katayun Barmak, Kevin Coffey, 2014-02-13 Metallic films play an important role in modern technologies such as integrated circuits information storage displays sensors and coatings Metallic Films for Electronic Optical and Magnetic Applications reviews the structure processing and properties of metallic films Part one explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy This part also encompasses the processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Chapters in part two focus on the properties of metallic films including mechanical electrical magnetic optical and thermal properties Metallic Films for Electronic Optical and Magnetic Applications is a technical resource for electronics components manufacturers scientists and engineers working in the semiconductor industry product developers of sensors displays and other optoelectronic devices and academics working in the field Explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy Discusses processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Focuses on the properties of metallic films including mechanical electrical magnetic optical and thermal properties      **Detection and Interaction of**

**Single Quantum States** Sishen Xie, 2023-07-25 This book highlights the findings and achievements in the major research plan Detection and Interaction of Single Quantum States funded by the National Natural Science Foundation of China NSFC The 8 year plan started in 2011 and consisted of 107 projects conducted by Chinese universities and research institutes The book covers the plan s research background achievements and follow up prospects The plan aimed to tackle one of the major challenges for researchers worldwide to establish precise detection and control of single quantum states in time space energy and momentum The plan integrated precise detection means with the ultrahigh resolution of time space and energy under extreme conditions such as ultrahigh vacuum ultralow temperature high magnetic field and ultrahigh pressure using interdisciplinary research methods in physics chemistry informatics and materials science The book focuses on the exploration of new phenomena theories and concepts of single quantum states describes new techniques and methods of single quantum states and presents the purification and construction of single quantum state systems It is a concise and valuable source of information for researchers in quantum science and graduate students interested in the research field

*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 scientist 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      **Electronic Structure of Materials** Natalia Chezhina,Dmitry Korolev,2019-04-01 This book is a short survey of magnetochemistry as a promising method for revealing the electronic structure of inorganic substances particularly solid oxide materials It is supported by five chapters that describe materials with various structures and applications showing how the method of magnetic dilution with the aid of other physical methods electron spin resonance magnetization Raman and Mossbauer spectroscopy and electrical conductivity accompanied by thorough structural and quantum mechanical studies may be used for describing the states of atoms and interatomic interactions in multicomponent oxide systems The book will serve as a guide for researchers in the field of various oxide materials since it shows the roots for selecting the best structures and qualitative and quantitative compositions of oxide materials on the basis of the knowledge about their electronic structure It is devoted to some of the most popular structures of multicomponent oxides among modern materials perovskites and pyrochlores giving a unified approach to their chemical structure      Magnetism Beyond 2000 Arthur J. Freeman,Samuel D. Bader,1999 Hardbound The large and growing numbers of publications and patents in magnetism show that the last decade has witnessed a number of impressive discoveries important to both basic science and technology and that magnetism is now in a new golden age It is therefore an ideal time to provide an historical perspective of these developments to identify the most important issues and to provide a perspective for developments anticipated in the beginning of the next century The forty six review articles in this book while not exhaustive summarize the most significant recent and ongoing exciting scientific and technological developments and provide both the flavor and meaning of magnetism as a vital field of importance to both basic science and device applications The authors are all well known and respected authorities in their specific areas of expertise The table of contents reflects the vitality and richness of the field      Handbook of Magnetism and Advanced Magnetic Materials: Fundamentals and theory Helmut Kronmüller,Stuart S. P. Parkin,2007      **Electronic and Magnetic Ordering Phenomena in Multiferroic and Colossal Magneto-resistive Manganites** Marios Garganourakis,Johannes Friso van der Veen (Physicist, Netherlands),2013      **Magneto-resistive Oxides and Related Materials: Volume 602** M. S. Rzchowski,2001-05-23 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners      **Spectroscopic and Structural Studies of Strongly Correlated Oxides** Norman

Mannella,2003 **EMMA-2000** V.G. Baryakhtar,2001-08-08 European Magnetic Materials and Applications Proceedings of the 8th European Magnetic Materials and Applications Conference Kyiv Ukraine June 7 10 2000 **Solid State Science and Technology XXX** Syahida Suhaimi,Lailatun Nazirah Ozair,Azira Khalil,2020-07-17 Selected peer review full text papers from the 30th Regional Conference of Solid State Science and Technology RSCSSST Special topic volume with invited peer reviewed papers only *High-Density Magnetic Recording and Integrated Magneto-Optics: Materials and Devices: Volume 517* James Bain,1998-10-13 Papers from an April 1998 symposium are arranged as was the symposium in two sections the first on materials for high density magnetic recording head materials for write transducers and readback sensors and integrated magneto optics materials and devices The first section comprises contributions in such areas as high moment pole materials anisotropic magnetoresistance giant magnetoresistance and exchange materials spin tunnel junctions microstructural issues in longitudinal recording media thermal stability novel structures and nanotribology of wear layers The second section contains papers on garnet materials for integrated photonics fabrication and processing and devices magneto optic recording media and diluted magnetic semiconductors and other materials Annotation copyrighted by Book News Inc Portland OR Proceedings ,1998

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