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Physics of Manganites



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Physics Of Manganites

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Kugel, Alexander L. Rakhmanov, Artem
O. Sboychakov**

Physics Of Manganites:

Physics of Manganites T.A. Kaplan, S.D. Mahanti, 1999-05-31 This series of books which is published at the rate of about one per year addresses fundamental problems in materials science. The contents cover a broad range of topics from small clusters of atoms to engineering materials and involves chemistry, physics, materials science and engineering with length scales ranging from nanostroms up to millimeters. The emphasis is on basic science rather than on applications. Each book focuses on a single area of current interest and brings together leading experts to give an up to date discussion of their work and the work of others. Each article contains enough references that the interested reader can access the relevant literature. Thanks are given to the Center for Fundamental Materials Research at Michigan State University for supporting this series. M F Thorpe Series Editor. E mail thorpe pa msu edu. V PREFACE This book records invited lectures given at the workshop on Physics of Manganites held at Michigan State University July 26-29 1998. Doped manganites are an interesting class of compounds that show both metal-insulator and ferromagnetic to paramagnetic transitions at the same temperature. This was discovered in the early 1950s by Jonker and van Santen and basic theoretical ideas were developed by Zener 1951, Anderson and Hasegawa 1955 and deGennes 1960 to explain these transitions and related interesting observations. Physics of Manganites T. A. Kaplan, S. D. Mahanti, 2014-01-15 *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. Nanoscale Phase Separation and Colossal Magnetoresistance Elbio Dagotto, 2014-01-15 **Compound Systems in Nonextensive Statistical Mechanics and Manganites** Felipe Américo Reyes Navarro, 2022-07-21 This book presents insights into manganese oxides which are materials with important technological applications such as magnetic

refrigeration and magnetic sensors It provides many mathematical proofs carried out in a didactic and elegant way some of them use for example the method of mathematical induction The book will be of interest to both researchers of physical sciences and the general reader interested in the subject

Magnetocaloric Effect in Perovskite Manganites H. Gencer, V.S. Kolat, T. Izgi, N. Bayri, S. Atalay, 2020-09-15 For environmental concerns it is highly desirable to replace gas based refrigeration by magnetic refrigeration Magnetic refrigeration has significant advantages such as small volume chemical stability low cost non toxicity and not causing sound pollution Among the pertinent magnetocaloric materials perovskite manganites are of special interest because they exhibit extremely large magnetic entropy and adiabatic temperature variations a small thermal or magnetic hysteresis high chemical stability Further the Curie temperature and saturation magnetization can be tailored by changing doping element and doping concentrations The book references 289 original resources and includes their direct web link for in depth reading Keywords Magnetic Refrigeration Magnetocaloric Effect Perovskite Manganites Perovskite Structure Magnetic Entropy Magnetic Hysteresis Thermal Hysteresis Chemical Stability Curie Temperature Saturation Magnetization Lanthanides

Magnetic Oxides and Composites II Rajshree B. Jotania, Sami H. Mahmood, 2020-10-15 Magnetic oxides have highly interesting applications in the fields of permanent magnets microwave devices magnetic refrigeration sensors catalysis and the health sector This book focuses on the synthesis characterization and applications of various perovskites garnets manganites carbon based metal oxide nanocomposites nanoferrites and graphene metal oxide nanocomposites Keywords Magnetic Oxides Permanent Magnets Microwave Devices Magnetic Refrigeration Sensors Catalysis Perovskites Nanoferrites Manganites Rare Earth Iron Garnet Graphene Metal Oxide Nanocomposites Carbon Nanomaterials Mesoporous Materials Nanocatalysts Multifunctional Ferrites Magnetocaloric Effect Biosynthesis Photo Catalysis Antibacterial Activity High Density Recording Media

Colossal Magnetoresistive Manganites Tapan Chatterji, 2004-02-29 This book is a comprehensive account of the present understanding of an important class of perovskite oxide materials with potential industrial applications The chapters are written by well known scientists who are on the forefront of the field and have directly contributed to its recent progress Special care has been taken to maintain a balance between the space devoted to new experimental results and that devoted to recent theoretical developments The book contains recent experimental and theoretical results on colossal magnetoresistive CMR manganites not covered by any other book in the field and hence this will be very beneficial to graduate students and researchers in condensed matter and applied physics materials science and solid state chemistry

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

Introduction to Spectroscopic

Ellipsometry of Thin Film Materials Andrew T. S. Wee, Xinmao Yin, Chi Sin Tang, 2022-03-08 A one of a kind text offering an introduction to the use of spectroscopic ellipsometry for novel material characterization In *Introduction to Spectroscopic Ellipsometry of Thin Film Materials Instrumentation Data Analysis and Applications* a team of eminent researchers delivers an incisive exploration of how the traditional experimental technique of spectroscopic ellipsometry is used to characterize the intrinsic properties of novel materials The book focuses on the scientifically and technologically important two dimensional transition metal dichalcogenides 2D TMDs magnetic oxides like manganite materials and unconventional superconductors including copper oxide systems The distinguished authors discuss the characterization of properties like electronic structures interfacial properties and the consequent quasiparticle dynamics in novel quantum materials Along with illustrative and specific case studies on how spectroscopic ellipsometry is used to study the optical and quasiparticle properties of novel systems the book includes Thorough introductions to the basic principles of spectroscopic ellipsometry and strongly correlated systems including copper oxides and manganites Comprehensive explorations of two dimensional transition metal dichalcogenides Practical discussions of single layer graphene systems and nickelate systems In depth examinations of potential future developments and applications of spectroscopic ellipsometry Perfect for master s and PhD level students in physics and chemistry *Introduction to Spectroscopic Ellipsometry of Thin Film Materials* will also earn a place in the libraries of those studying materials science seeking a one stop reference for the applications of spectroscopic ellipsometry to novel developed materials

Electronic Structure and Magnetism of Complex Materials David J. Singh, Dimitrios A.

Papaconstantopoulos, 2013-03-14 Recent developments in electronic structure theory have led to a new understanding of magnetic materials at the microscopic level This enables a truly first principles approach to investigations of technologically important magnetic materials Among these advances have been practical schemes for handling non collinear magnetic systems including relativity understanding of the origins and role of orbital magnetism within band structure formalisms density functional approaches for magnons and low lying spin excitations understanding of the interplay of orbital spin and lattice orderings in complex oxides transport theories for layered systems and the theory of magnetic interactions in doped semiconductors The book covers these recent developments with review articles by some of the main originators of these advances

Superconducting State Vladimir Z. Kresin, Hans Morawitz, Stuart A. Wolf, 2013-12-12 *Superconducting State* provides a very detailed theoretical treatment of the key mechanisms of superconductivity including the current state of the art phonons magnons and plasmons A very complete description is given of the electron phonon mechanism responsible for superconductivity in the majority of superconducting systems and the history of its development as well as a detailed description of the key experimental techniques used to study the superconducting state and determine the mechanisms In addition there are chapters describing the discovery and properties of the key superconducting compounds that are of the most interest for science and applications including a special chapter on the cuprate superconductors It provides detailed

treatments of some very novel aspects of superconductivity including multiple bands gaps the pseudogap state novel isotope effects beyond BCS and induced superconductivity

Open Problems in Strongly Correlated Electron Systems Janez Bonca, Peter Prelovsek, Anton Ramsak, Sarben Sarkar, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Bled Slovenia 26 30 April 2000 Extrinsic Magnetotransport in Manganites and Its Dependence on Mechanical Strain Ramesh Babu Gangineni, 2008

Engineering Magnetic, Dielectric and Microwave Properties of Ceramics and Alloys Charanjeet Singh, 2019-10-25 New research on the magnetic dielectric and microwave properties of promising materials for domestic industrial military and medical applications are presented with focus on biomaterials ferrites Ni Fe alloys capacitors multiferroics microwave absorbers and perovskite materials Special emphasis is placed on bioceramics for orthopedic applications classification of biomaterials bioactive glass systems preparation properties and applications of PbFe₁₂O₁₉ hexaferrites Ni Fe alloys for shielding electronic devices from external magnetostatic fields the role of multiferroics in spintronics field design of microwave absorbers and absorption characteristics of ceramics

Electron Correlations and Materials Properties 2 A. Gonis, Nicholis Kioussis, Mikael Ciftan, 2013-03-09 This is the second in a series of International Workshops on Electron Correlations and Materials Properties The aim of this series of workshops is to provide a periodic triennial and in depth assessment of advances in the study and understanding of the effects that electron electron interactions in solids have on the determination of measurable properties of materials The workshop is structured to include exposure to experimental work to phenomenology and to ab initio theory Since correlation effects are pervasive the workshop aims to concentrate on the identification of promising developing methodology experimental and theoretical addressing the most critical frontier issues of electron correlations on the properties of materials This series of workshops is distinguished from other topical meetings and conferences in that it strongly promotes an interdisciplinary approach to the study of correlations involving the fields of quantum chemistry physics and materials science The First Workshop was held June 28 July 3 1998 and a proceedings of the workshop was published by Kluwer/Plenum The Second Workshop was held June 24 29 2001 and this volume contains the proceedings of that scientific meeting Through the publications of proceedings the workshop attempts to disseminate the information gathered during the discussions held at the Workshop to the wider scientific community and to establish a record of advances in the field

Sintering of Functional Materials Igor Shishkovsky, 2018-02-07 Powder based materials and treatment technologies rank high in contemporary scientific technical progress due to their numerous significant technoeconomic qualities Sintering of such materials allows saving on materials and lowering the cost price of the product as well as manufacturing complex composite materials with unique combinations of qualities Materials of record high values of some physic mechanical and also biochemical characteristics can be obtained owing to structural peculiarities of super dispersed condition Sintering of functional materials for innovative perspectives in automotive and aeronautical engineering space technology lightweight construction mechanical engineering modern design

and many other applications requires established relationship in the materials process properties system Therefore the industry being interested in understanding theoretical modeling and control over behavior of such powdered materials has promoted the research activities of this manuscript s authors

Epitaxial Growth of Complex Metal Oxides Gertjan Koster, Mark Huijben, Guus Rijnders, 2015-05-14 The atomic arrangement and subsequent properties of a material are determined by the type and conditions of growth leading to epitaxy making control of these conditions key to the fabrication of higher quality materials Epitaxial Growth of Complex Metal Oxides reviews the techniques involved in such processes and highlights recent developments in fabrication quality which are facilitating advances in applications for electronic magnetic and optical purposes Part One reviews the key techniques involved in the epitaxial growth of complex metal oxides including growth studies using reflection high energy electron diffraction pulsed laser deposition hybrid molecular beam epitaxy sputtering processes and chemical solution deposition techniques for the growth of oxide thin films Part Two goes on to 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 in Part Three Provides valuable information on the improvements in epitaxial growth processes that have resulted in higher quality films of complex metal oxides and further advances in applications for electronic and optical purposes Examines the techniques used in epitaxial thin film growth Describes the epitaxial growth and functional properties of complex metal oxides and explores the effects of strain and defects

Electronic Phase Separation in Magnetic and Superconducting Materials Maxim Yu. Kagan, Kliment I. Kugel, Alexander L. Rakhmanov, Artem O. Sboychakov, 2024-06-03 This book focuses on nanoscale electronic phase separation in a wide class of different materials especially in strongly correlated electron systems It features an extensive review of the field of inhomogeneous spin and charge states in condensed matter physics while delivering a topical and timely discussion of a wide range of recent advances in electronic phase separation It describes the formation of different types of nanoscale ferromagnetic metallic droplets in antiferromagnetically ordered charge ordered or orbitally ordered insulating matrices as well as the colossal magnetoresistance effect and tunneling electron transport in the nonmetallic phase separated state of complex magnetic oxides It also discusses compounds with spin state transitions inhomogeneously phase separated states in strongly correlated multiband systems and the electron polaron effect paying special attention to systems with imperfect Fermi surface nesting such as chromium alloys iron based pnictides and AA stacked graphene bilayers The authors investigate also the formation of order parameter clusters and insulator superconductor transition in different superconducting systems including bismuth oxides two dimensional films in the presence of strong disorder as well as inhomogeneous Fermi Bose mixtures in Aharonov Bohm rings with a superconducting bridge in a topologically nontrivial state This book is a valuable resource for researchers involved in theoretical and experimental studies of strongly correlated materials such as magnetic semiconductors Fermi Bose mixtures and twisted

bilayer graphene **Trends in Chemistry of Materials** C. N. R. Rao, 2008 In this collection the author has compiled a set of his papers representing some of the highlights of materials chemistry It features a section on oxidic materials which includes high temperature superconductivity colossal magnetoresistance electronic phase separation and multiferroics The author has also included novel methods for making gallium nitride boron nitride and such materials by using precursors and the urea decomposition route Moreover there is a section dealing with open framework and hybrid materials of which the latter has a great future since one can make use of the rigidity of inorganic structures and the functionality and flexibility of the organic residues to design materials with novel properties

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