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Physics of Manganites



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Physics Of Manganites

T.A. Kaplan, S.D. Mahanti



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. **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.

Nanoscale Phase Separation and Colossal Magnetoresistance Elbio Dagotto, 2014-01-15 **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. *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

TMS 2015 144th Annual Meeting and Exhibition The Minerals, Metals & Materials Society (TMS),2015-02-26 The TMS 2015 Annual Meeting Supplemental Proceedings is a collection of papers from the TMS 2015 Annual Meeting the unedited papers have not necessarily been reviewed by the symposium organizers and are presented as is The opinions and statements expressed within the papers are those of the individual authors only and no confirmations or endorsements are intended or implied

50 Years of Anderson Localization Elihu Abrahams,2010 This unique volume celebrates the five decades of the impact of Anderson localization on modern physics In addition to the historical perspective on its origin it provides a comprehensive description of the experimental and theoretical aspects of Anderson localization

TMS 2015 144th Annual Meeting & Exhibition, Annual Meeting Supplemental Proceedings The Minerals, Metals & Materials Society (TMS),2016-12-20 **Handbook of Magnetism and Advanced Magnetic Materials: Spintronics and magnetoelectronics** Helmut Kronmüller,Stuart S. P. Parkin,2007 [Magnetism and Electron Transport in Magnetoresistive Lanthanum Calcium Manganite](#) G. Jeffrey Snyder,1997

Nature Sir Norman Lockyer,1890 *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 *Solid-State Chemistry of Inorganic Materials II: Volume 547* Susan M. Kauzlarich, 1999-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Solid-state Chemistry of Inorganic Materials**, 2005 Manganite-Based Thin Films and Heterojunctions Zhigao Sheng, Ling Hu, Yuping Sun, 2015 Mixed valence manganites have attracted considerable attention since the late 19th century The intriguing interplay of charge spin and orbital ordering in the manganites systems superimposed by interface surface effects provides a scientific platform beneficial for both fundamental and application oriented research The fundamental basis for understanding physical properties and designing new functionalities of manganites is the concept of the symmetry of order parameters which can be manipulated artificially by controlling the interplay of electronic degrees of freedom This book explores the possibility of externally modifying the properties of manganite based thin films and heterojunctions by epitaxial strain or artificial boundaries which could give us new insights to generating properties at the interface between film and heterointerface The book describes some of the sophisticated concepts concerning manganite based films and heterojunctions in clear detail bringing us closer than ever to understanding the research progress and main trends What we can learn from the book is highly thought provoking the explanation of the strain stabilisation and strain induced effects in manganite based films and heterointerfaces the comparison between electrical transport in manganite based heterojunctions and semiconductor junctions and in particular the interpretation of the photo induced and photo voltaic effect in manganite based films and heterojunctions Furthermore the magneto tunability at the manganite based heterointerfaces leading to the design of new functionalities will be highlighted at last

Proceedings of the International Conference on Strongly Correlated Electron Systems (SCES-Y2K), SINP, Calcutta, India, October 23-28, 2000 A. N. Das, 2001 *Journal of the Physical Society of Japan*, 2009-03

Introduction to Nonextensive Statistical Mechanics Constantino Tsallis, 2023-01-30 This book focuses on nonextensive statistical mechanics a current generalization of Boltzmann Gibbs BG statistical mechanics Conceived nearly 150 years ago by Maxwell Boltzmann and Gibbs the BG theory one of the greatest monuments of contemporary physics exhibits many

impressive successes in physics chemistry mathematics and computational sciences Presently several thousands of publications by scientists around the world have been dedicated to its nonextensive generalization A variety of applications have emerged in complex systems and its mathematical grounding is by now well advanced Since the first edition release thirteen years ago there has been a vast amount of new results in the field all of which have been incorporated in this comprehensive second edition Heavily revised and updated with new sections and figures the second edition remains the go to text on the subject A pedagogical introduction to the BG theory concepts and their generalizations nonlinear dynamics extensivity of the nonadditive entropy global correlations generalization of the standard CLT s complex networks among others is presented in this book as well as a selection of paradigmatic applications in various sciences together with diversified experimental verifications of some of its predictions Introduction to Nonextensive Statistical Mechanics is suitable for students and researchers with an interest in complex systems and statistical physics American Book Publishing Record ,2000 **Handbook of Magnetism and Advanced Magnetic Materials: Fundamentals and theory** Helmut Kronmüller,Stuart S. P. Parkin,2007

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