

SOLID-STATE SCIENCES

E. Dagotto

# **Nanoscale Phase Separation and Colossal Magnetoresistance**

The Physics of Manganites  
and Related Compounds



Springer

# Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds

**JE Gale**



## **Nanoscale Phase Separation And Colossal Magnetoresistance The Physics Of Manganites And Related Compounds:**

**Nanoscale Phase Separation and Colossal Magnetoresistance** Elbio Dagotto, 2013-03-14 Condensed matter is one of the most active areas of research in physics. Every year new materials are discovered with properties that are as challenging as or more than those of the year before. The effort is led mainly by experimentalists who systematically manage to prepare compounds with exotic new properties including complex ground states involving nontrivial spin charge lattice and orbital arrangements. This work is typically carried out by a relatively small number of researchers compared with other disciplines and the interaction between experimentalists and theorists is quite strong. It is a real pleasure for a theorist like the author to have experimental data with which to test proposed ideas in short time scales. This allows for a theory-experiment cross fertilization that keeps the field very active. These are quite interesting times in condensed matter for sure. This book is devoted to the study of a family of materials known as manganites. As for other exotic compounds, the fast development of experiments has induced a rapid evolution of the main theoretical ideas. A considerable effort both on theory and experiments has led to the currently much accepted notion that nanoscale phase separation is at the heart of the behavior of electrons in these compounds. This point is described in detail in this book with a plethora of experimental data, computer simulation results and analytic calculations supporting that description. **Books in Print Supplement**, 2002

**Dissertation Abstracts International**, 2006 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. **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, 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

*Ferromagnetic Domain Behavior and Phase Transition in Bilayer Manganites Investigated at the Nanoscale*, 2015 Understanding the underlying mechanism and phenomenology of colossal magnetoresistance in manganites has largely focused on atomic and nanoscale physics such as double exchange phase separation and charge order Here in this article we consider a more macroscopic view of manganite materials physics reporting on the ferromagnetic domain behavior in a bilayer manganite sample with a nominal composition of  $\text{La}_{2-x}\text{Sr}_x\text{Mn}_2\text{O}_7$  with  $x = 0.38$  studied using in situ Lorentz transmission electron microscopy The role of magnetocrystalline anisotropy on the structure of domain walls was elucidated On cooling magnetic domain contrast was seen to appear first at the Curie temperature within the  $a-b$  plane With further reduction in temperature the change in area fraction of magnetic domains was used to estimate the critical exponent describing the ferromagnetic phase transition Lastly the ferromagnetic phase transition was accompanied by a distinctive nanoscale granular contrast close to the Curie temperature which we infer to be related to the presence of ferromagnetic nanoclusters in a paramagnetic matrix which has not yet been reported in bilayer manganites

Colossal Magnetoresistance and Phase Separation in Magnetic Semiconductors Eduard Leonovich Nagaev, 2002-01-01 This book presents theoretical and experimental results on manganites and conventional magnetic semiconductors with emphasis on the former It is addressed mainly to researchers dealing with manganites or high temperature superconductors but is also useful for undergraduate and graduate students

**Colossal Magnetoresistance, Charge Ordering and Related Properties of Manganese Oxides** Chintamani Nagesa Ramachandra Rao, Bernard Raveau, 1998 Metal oxides constitute one of the most amazing classes of materials with a wide range of properties They exhibit a variety of phenomena such as ferroelectricity ferromagnetism and superconductivity A new aspect of metal oxides colossal magnetoresistance exhibited by certain manganese oxides in particular rare earth manganates of perovskite structure has received much attention in the last

four years Some of these oxides show 100% magnetoresistance and have much potential for technological applications Previously this phenomenon was found only in layered and granular metallic materials Studies of colossal magnetoresistance have led to the discovery of many other new phenomena and properties such as charge ordering and orbital ordering In view of the importance of colossal magnetoresistance charge ordering and related phenomena exhibited by oxides to the physics and chemistry of solid materials it is necessary and timely to have a book dealing with these topics This book begins with a review of the subject followed by contributions from a number of experts which cover the present status of the subject

### **Influence of the Phase Separation on the Transport Properties of the Charge Ordered Colossal**

**Magnetoresistance Manganites** Vitaly Podzorov, 2002      *Origin of Colossal Magnetoresistance in LaMnO<sub>3</sub> Manganite*, 2015 Phase separation is a crucial ingredient of the physics of manganites however the role of mixed phases in the development of the colossal magnetoresistance CMR phenomenon still needs to be clarified In this paper we report the realization of CMR in a single valent LaMnO<sub>3</sub> manganite We found that the insulator to metal transition at 32 GPa is well described using the percolation theory Pressure induces phase separation and the CMR takes place at the percolation threshold A large memory effect is observed together with the CMR suggesting the presence of magnetic clusters The phase separation scenario is well reproduced solving a model Hamiltonian Finally our results demonstrate in a clean way that phase separation is at the origin of CMR in LaMnO<sub>3</sub>      *Emerging Transport Behavior in Manganites Wires*, 2008 The two hottest areas of research in condensed matter physics are complexity and nanoscale physics Interestingly these two areas have little overlap as most of the nanophysics research work is conducted using simple materials of metals or semiconductors instead of complex materials such as transition metal oxides However due to the strong electronic correlation it is exactly the transition metal oxides that will most likely lead to observations of striking new phenomena under spatial confinement We will use perovskite manganites as model systems to demonstrate how spatial confinement can dramatically affect their transport and magnetic properties The emerging magnetic and transport behavior is likely associated with the electronic phase separation under confined geometry in the manganites Some of the new properties such as ultrasharp jumps of magnetoresistance and reentrant metal insulator transition may have significant impact on fabricating oxides based novel devices

*Colossal-magnetoresistance Materials* Eduard Leonovich Nagaev, 2001

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## **Table of Contents Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds**

1. Understanding the eBook Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - The Rise of Digital Reading Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Advantages of eBooks Over Traditional Books
2. Identifying Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Personalized Recommendations
  - Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds

User Reviews and Ratings

- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds and Bestseller Lists

### **5. Accessing Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds Free and Paid eBooks**

- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds Public Domain eBooks
- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds eBook Subscription Services
- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds Budget-Friendly Options

### **6. Navigating Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds eBook Formats**

- ePub, PDF, MOBI, and More
- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds Compatibility with Devices
- Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds Enhanced eBook Features

### **7. Enhancing Your Reading Experience**

- Adjustable Fonts and Text Sizes of Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
- Highlighting and Note-Taking Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
- Interactive Elements Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds

### **8. Staying Engaged with Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds**

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of

### Manganites And Related Compounds

9. Balancing eBooks and Physical Books Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Setting Reading Goals Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Fact-Checking eBook Content of Nanoscale Phase Separation And Colobal Magnetoresistance The Physics Of Manganites And Related Compounds
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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