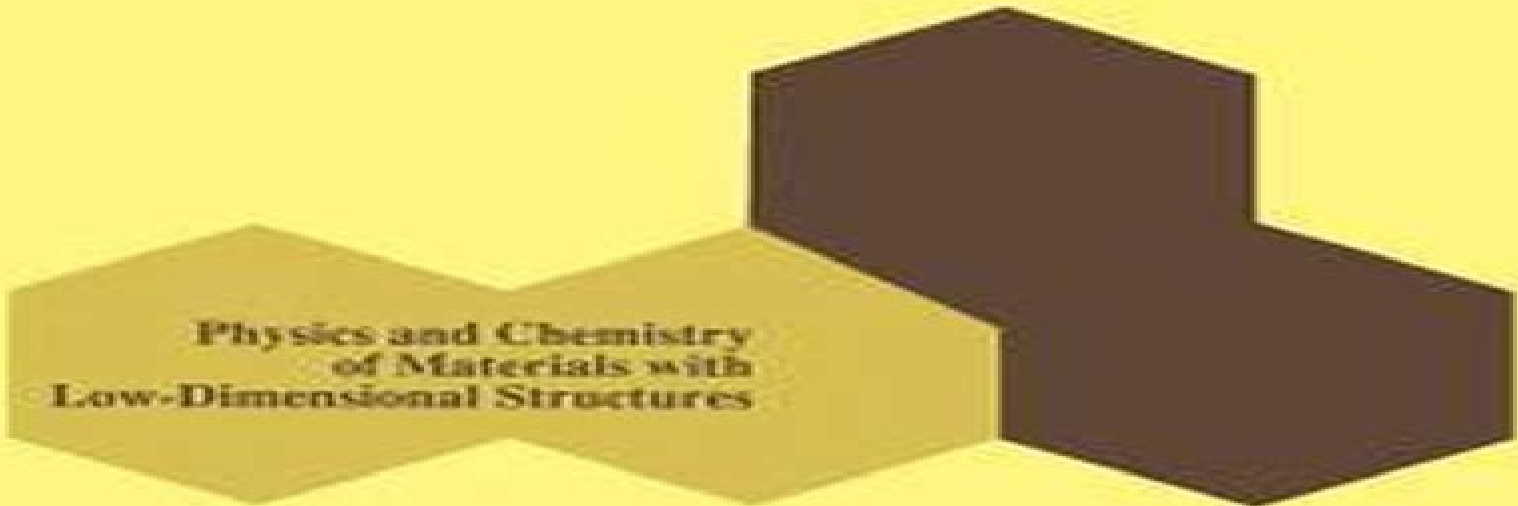


# **Magnetic Properties of Layered Transition Metal Compounds**

*Edited by*

**L.J. de Jongh**



**Physics and Chemistry  
of Materials with  
Low-Dimensional Structures**

**Kluwer Academic Publishers**

# Magnetic Properties Of Layered Transition Metal Compounds

**Raymond F. Bishop, Klaus A.  
Gernoth, Niels R. Walet**



## **Magnetic Properties Of Layered Transition Metal Compounds:**

**Magnetic Properties of Layered Transition Metal Compounds** L.J. de Jongh, 2012-12-06 In the last two decades low dimensional low d physics has matured into a major branch of science. Quite generally we may define a system with restricted dimensionality d as an object that is infinite only in one or two spatial directions d = 1 and 2. Such a definition comprises isolated single chains or layers but also fibres and thin layers, films of varying but finite thickness. Clearly a multitude of physical phenomena notably in solid state physics fall into these categories. As examples we may mention: Magnetic chains or layers, thin film technology, Metallic films, homogeneous or heterogeneous, crystalline, amorphous or microcrystalline, etc. 1d or 2d conductors and superconductors, Intercalated systems, 2d electron gases, electrons on helium, semiconductor interfaces, Surface layer problems, 2d melting of monolayers of noble gases on a substrate, surface problems in general, Superfluid films of He or He Polymer physics, Organic and inorganic chain conductors, superionic conductors, 1d or 2d molecular crystals and liquid crystals, 1d or 2d ferro and antiferro electrics. *Magnetic Properties of Layered Transition Metal Compounds* L.J. De Jongh, 1990-04-30. EPR of Free Radicals in Solids II Anders Lund, Masaru Shiotani, 2012-12-09. EPR of Free Radicals in Solids: Trends in Methods and Applications, 2nd ed. presents a critical two volume review of the methods and applications of EPR/ESR for the study of free radical processes in solids. Emphasis is on the progress made in the developments in EPR technology in the application of sophisticated matrix isolation techniques and in the advancement in quantitative EPR that have occurred since the 1st edition was published. Improvements have been made also at the theoretical level with the development of methods based on first principles and their application to the calculation of magnetic properties as well as in spectral simulations. EPR of Free Radicals in Solids II focuses on the trends in applications of experimental and theoretical methods to extract structural and dynamical properties of radicals and spin probes in solid matrices by continuous wave (CW) and pulsed techniques in nine chapters written by experts in the field. It examines the studies involving radiation and photo induced inorganic and organic radicals in inert matrices, the high spin molecules and metal based molecular clusters as well as the radical processes in photosynthesis. Recent advancements in environmental applications including measurements by muon resonance of radicals on surfaces and by quantitative EPR in dosimetry are outlined and the applications of optical detection in material research with much increased sensitivity reviewed. The potential use of EPR in quantum computing is considered in a newly written chapter. This new edition is aimed to experimentalists and theoreticians in research involving free radicals as well as for students of advanced courses in physical chemistry, chemical physics, materials science, biophysics, biochemistry and related fields. **Renormalization Group Theory** Ulrich Köbler, Andreas Hoser, 2010-04-29. Spin wave theory of magnetism and BCS theory of superconductivity are typical theories of the time before renormalization group (RG) theory. The two theories consider atomistic interactions only and ignore the energy degrees of freedom of the continuous infinite solid. Since the pioneering work of Kenneth G. Wilson (Nobel Prize of physics in 1982) we know that the continuous

solid is characterized by a particular symmetry invariance with respect to transformations of the length scale. Associated with this symmetry are particular field particles with characteristic excitation spectra. In diamagnetic solids these are the well known Debye bosons. This book reviews experimental work on solid state physics of the last five decades and shows in a phenomenological way that the dynamics of ordered magnets and conventional superconductors is controlled by the field particles of the infinite solid and not by magnons and Cooper pairs respectively. In the case of ordered magnets the relevant field particles are called GSW bosons after Goldstone, Salam and Weinberg and in the case of superconductors the relevant field particles are called SC bosons. One can imagine these bosons as magnetic density waves or charge density waves respectively. Crossover from atomistic exchange interactions to the excitations of the infinite solid occurs because the GSW bosons have generally lower excitation energies than the atomistic magnons. According to the principle of relevance the dynamics is governed by the excitations with the lowest energy. The non relevant atomistic interactions with higher energy are practically unimportant for the dynamics.

Van der Waals Heterostructures Zheng Zhang, Zhuo Kang, Qingliang Liao, Yue Zhang, 2022-10-31. Van der Waals Heterostructures: A comprehensive resource systematically detailing the developments and applications of van der Waals heterostructures and devices. Van der Waals Heterostructures is essential reading to understand the developments made in van der Waals heterostructures and devices in all aspects from basic synthesis to physical analysis and heterostructures assembling to devices applications including demonstrated applications of van der Waals heterostructure on electronics, optoelectronics and energy conversion such as solar energy, hydrogen energy, batteries, catalysts, biotechnology and more. This book starts from an in depth introduction of van der Waals interactions in layered materials and the forming of mixed dimensional heterostructures via van der Waals force. It then comprehensively summarizes the synthetic methods, devices, building processes and physical mechanism of 2D van der Waals heterostructures and devices including 2D 2D electronics, 2D 2D optoelectronics and mixed dimensional van der Waals heterostructures. In Van der Waals Heterostructures, readers can expect to find specific information on: The current library of 2D semiconductors and the current synthesis and performances of 2D semiconductors; Controllable synthesis and assemble van der Waals heterostructures; physics of the van der Waals interface and multi field coupling effects; 2D 2D electronics, 2D 2D optoelectronics, mixed dimensional van der Waals heterostructures and van der Waals heterostructure applications on energy conversion; Insight into future perspectives of the van der Waals heterostructures and devices with the detailed effective role of 2D materials for integrated electrical and electronic equipment.

**Recent Advances In Magnetism Of Transition Metal Compounds: Festschrift In Honour Of Professor K Motizuki** Akio Kotani, Naoshi Suzuki, 1993-03-18. This book is a Festschrift in honour of Professor Kazuko Motizuki on the occasion of her retirement from Osaka University. She has been active in a variety of branches of solid state physics and in particular has made an important contribution to the theory of magnetism. The book reviews recent advances in magnetism of transition metal compounds both for itinerant electron

systems and localized spin systems For the former systems band calculational methods correlation effects and theoretical aspects of photoemission spectroscopy are reviewed generally and then recent progress in the theoretical and experimental understanding of magnetic properties of various kinds of intermetallic compounds and intercalation compounds of transition metal dichalcogenides are reviewed in detail For the latter systems attention is focused on quantum effects frustration and competing interaction in low dimensional systems Main subjects treated in the book are Haldane gap systems singlet ground state systems triangular spin systems and quantum spin chains with competing interactions

**Recent advances in two-dimensional van der Waals magnets** Hang Xu, Shengjie Xu, Xun Xu, Jincheng Zhuang, Weichang Hao, Yi Du, 2022-04-20

**New Horizons in Low-Dimensional Electron Systems** Hideo Aoki, Masahiko Tsukada, M. Schlüter, Francis Lévy, 1991-12-31 In Bird of Passage by Rudolf Peierls we find a paragraph in which he describes his Cambridge days in the 1930s On these relativistic field theory problems my main contacts were Dirac and the younger theoreticians These included in particular Nevill now Sir Nevill Mott perhaps the friendliest among many kind and friendly people we met then Professor Kamimura became associated with Sir Rudolf Peierls in the 1950s when he translated with his colleagues Peierls's 1955 textbook Quantum Theory of Solids into Japanese This edition to which Sir Rudolf himself contributed a preface benefitted early generations of Japanese solid state physicists Later in 1974 5 during a sabbatical year spent at the Cavendish Laboratory Professor Kamimura met and began a long association with Sir Nevill Mott In particular they developed ideas for disordered systems One of the outcomes is a paper coauthored by them on ESR induced variable range hopping in doped semiconductors A series of works on disordered systems together with those on two dimensional systems have served as building blocks for Physics of Interacting Electrons in Disordered Systems in the International Series of Monographs on Physics coauthored by Aoki and published in 1989 by the Oxford University Press Soon after Professor Kamimura obtained a D Sc in 1959 for the work on the ligand field theory under the supervision of Masao Kotani his strong connections in the international physical community began when he worked at the Bell Telephone Laboratories in 1961 64

**Scientific and Technical Aerospace Reports**, 1994 *Single-Molecule Magnets* Malgorzata Holynska, 2018-10-10 Concise overview of synthesis and characterization of single molecule magnets Molecular magnetism is explored as an alternative to conventional solid state magnetism as the basis for ultrahigh density memory materials with extremely fast processing speeds In particular single molecule magnets SMM are in the focus of current research both because of their intrinsic magnetization properties as well as because of their potential use in molecular spintronic devices SMMs are fascinating objects on the example of which one can explain many concepts Single Molecule Magnets Molecular Architectures and Building Blocks for Spintronics starts with a general introduction to single molecule magnets SMM which helps readers to understand the evolution of the field and its future The following chapters deal with the current synthetic methods leading to SMMs their magnetic properties and their characterization by methods such as high field electron paramagnetic resonance paramagnetic nuclear

magnetic resonance and magnetic circular dichroism The book closes with an overview of radical bridged SMMs which have shown application potential as building blocks for high density memories Covers a hot topic single molecule magnetism is one of the fastest growing research fields in inorganic chemistry and materials science Provides researchers and newcomers to the field with a solid foundation for their further work Single Molecule Magnets Molecular Architectures and Building Blocks for Spintronics will appeal to inorganic chemists materials scientists molecular physicists and electronics engineers interested in the rapidly growing field of study

### **Quantum Field Theory Approach to Condensed Matter Physics**

Eduardo C. Marino, 2017-09-28 Independent electrons and static crystals Vibrating crystals Interacting electrons Interactions in action Functional formulation of quantum field theory Quantum fields in action Symmetries explicit or secret Classical topological excitations Quantum topological excitations Duality bosonization and generalized statistics Statistical transmutation Pseudo quantum electrodynamics Quantum field theory methods in condensed matter Metals Fermi liquids Mott and Anderson insulators The dynamics of polarons Polyacetylene The Kondo effect Quantum magnets in 1D Fermionization bosonization Coulomb gases and all that Quantum magnets in 2D nonlinear sigma model CP1 and all that The spin fermion system a quantum field theory approach The spin glass Quantum field theory approach to superfluidity Quantum field theory approach to superconductivity The cuprate high temperature superconductors The pnictides iron based superconductors The quantum Hall effect Graphene Silicene and transition metal dichalcogenides Topological insulators Non abelian statistics and quantum computation

### **Organic and Inorganic Low-Dimensional Crystalline Materials**

Pierre Delhaes, Marc Drillon, 2013-12-01 The research of unitary concepts in solid state and molecular chemistry is of current interest for both chemist and physicist communities It is clear that due to their relative simplicity low dimensional materials have attracted most of the attention Thus many non trivial problems were solved in chain systems giving some insight into the behavior of real systems which would otherwise be untractable The NATO Advanced Research Workshop on Organic and Inorganic Low Dimensional Crystalline Materials was organized to review the most striking electronic properties exhibited by organic and inorganic systems whose space dimensionality ranges from zero 0d to one 1d and to discuss related scientific and technological potentials The initial objectives of this Workshop were respectively i To research unitary concepts in solid state physics in particular for one dimensional compounds ii To reinforce through a close coupling between theory and experiment the interplay between organic and inorganic chemistry on the one hand and solid state physics on the other iii To get a salient understanding of new low dimensional materials showing exotic physical properties in conjunction with structural features

### **Functional Hybrid Materials**

Pedro Gómez-Romero, Clément Sanchez, 2006-03-06 Functional Hybrid Materials consist of both organic and inorganic components assembled for the purpose of generating desirable properties and functionalities The aim is twofold to bring out or enhance advantageous chemical electrochemical magnetic or electronic characteristics and at the same time to reduce or wholly suppress undesirable properties or effects Another target is the

creation of entirely new material behavior The vast number of hybrid material components available has opened up a wide and diversified field of fascinating research In this book a team of highly renowned experts gives an in depth overview illustrating the superiority of well designed hybrid materials and their potential applications

**Nonlinear Physical Phenomena - Proceedings Of The International Centre Of Condensed Matter Physics School** Alvaro Ferraz, Fernando Oliveira, Roberto Osorio, 1990-11-30 Non linear effects are basically manifested in a variety of physical phenomena such as defect mediated transitions pattern formation growth of aggregates turbulence chemical reactions diffusion in porous media biological information processing etc Many non linear dynamical systems are extremely sensitive to small changes in the initial conditions Different routes to chaos have been established and a new geometry called fractal geometry has been developed The aim of this School is to review the main achievements of the modern theory of irregular structures and to discuss the exciting new trends in non linear phenomena

**EPR of Free Radicals in Solids** Anders Lund, Masaru Shiotani, 2013-06-29 EPR of Free Radicals in Solids Trends in Methods and Applications presents methods and applications of modern EPR for the study of free radical processes in solids which so far are only available in the journal literature The first part of the book covering trends in methods contains experimentally oriented chapters on continuous wave and pulsed EPR techniques and special methods involving muon magnetic resonance and optical detection and theory for dynamic studies New simulation schemes including the influence of dynamics are presented as well as advances in the calculation of hyperfine and electronic g tensors The second part of the book presents applications involving studies of radiation and photo induced inorganic and organic radicals in inert matrices including novel results of quantum effects in small radicals High spin molecules and complexes are also considered as well as radical processes in photosynthesis Recent advances in EPR dosimetry are summarized

**150 Years of Quantum Many-body Theory** Raymond F. Bishop, Klaus A. Gernoth, Niels R. Walet, 2001-01-01 In July 2000 a conference was held to honour the 65th birthdays of four of the leading international figures in the field of quantum many body theory The joint research careers of John Clark Alpo Kallio Manfred Ristig and Sergio Rosati total some 150 years and this festschrift celebrated their achievements These cover a remarkably wide spectrum The topics in this book reflect that diversity ranging from formal aspects to real systems including nuclear and subnuclear systems quantum fluids and solids quantum spin systems and strongly correlated electron systems The book collects more than 30 invited contributions from eminent scientists chosen both from among the participants at the conference and from colleagues who were unable to attend but nevertheless wished to contribute To match the high standing of the honourees the articles are of an exceptionally high quality Together they provide a vivid overview of current work across the spectrum of quantum many body theory Contents A Historical Perspective Formal Aspects of Many Body Theory Nuclear and Subnuclear Physics Spin Systems Quantum Fluids and Solids OCo Bose Condensation Strongly Correlated Electrons Related Subjects Readership Postdocs researchers and academics in condensed matter and theoretical physics

**Computer Simulation**

**Studies in Condensed Matter Physics** David P. Landau, Kin K. Mon, Heinz-Bernd Schüttler, 2012-12-06 Computer simulation studies in condensed matter physics form a rapidly developing field making significant contributions to important physical problems. The papers in this volume present new physical results and report new simulation techniques and new ways of interpreting simulational data which cover simulation of both classical and quantum systems. Topics treated include Multigrid and nonlocal updating methods in Monte Carlo simulations. Simulations of magnetic excitations and phase transitions. Simulations of aggregate formation. Molecular dynamics and Monte Carlo studies of polymers, polymer mixtures and fluid flow. Quantum path integral and molecular dynamics studies of clusters and adsorbed layers on surfaces. New methods for simulating interacting boson and fermion systems. Simulational studies of electronic structure.

*Two-Dimensional Crystals* A. G. Naumovets, 2012-12-02 This is a self-contained tutorial introduction to two dimensional crystal science and technology. Including concise descriptions of experimental methods and results from fundamental theoretical concepts, this book covers a broad range of two dimensional structures from overlayers to freestanding films. All those with an active interest in surface science and statistical physics will find this book to be an essential reference work. Presents a coherent overview of experimental methods and theoretical background of two dimensional crystal physics. Provides a tutorial overview of continuous melting of two dimensional crystals, roughening transitions, wetting phenomena and commensurate/incommensurate transitions.

**High-Tc Superconductivity 1996** E. Kaldos, E. Liarokapis, K.A. Müller, 2012-12-06 After an introduction by J. G. Bednorz describing the discovery of high T<sub>c</sub> superconductivity and its consequences, the book goes on to describe modern research dealing with general problems, new materials and structures, phase separation, electronic homogeneities and related problems and applications. Specific systems dealt with include the La cuprates, the Bi cuprates and the Y cuprates and related compounds.

**Nonlinear Science at the Dawn of the 21st Century** P.L. Christiansen, M.P. Sørensen, A.C. Scott, 2008-01-11 Nonlinear science is by now a well established field of research at the interface of many traditional disciplines and draws on the theoretical concepts developed in physics and mathematics. The present volume gathers the contributions of leading scientists to give the state of the art in many areas strongly influenced by nonlinear research such as superconduction, optics, lattice dynamics, biology and biomolecular dynamics. While this volume is primarily intended for researchers working in the field, care has been taken that it will also be of benefit to graduate students or nonexpert scientists wishing to familiarize themselves with the current status of research.

## **Magnetic Properties Of Layered Transition Metal Compounds** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Magnetic Properties Of Layered Transition Metal Compounds**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Magnetic Properties Of Layered Transition Metal Compounds**

1. Understanding the eBook Magnetic Properties Of Layered Transition Metal Compounds
  - The Rise of Digital Reading Magnetic Properties Of Layered Transition Metal Compounds
  - Advantages of eBooks Over Traditional Books
2. Identifying Magnetic Properties Of Layered Transition Metal 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 Magnetic Properties Of Layered Transition Metal Compounds
  - User-Friendly Interface
4. Exploring eBook Recommendations from Magnetic Properties Of Layered Transition Metal Compounds
  - Personalized Recommendations
  - Magnetic Properties Of Layered Transition Metal Compounds User Reviews and Ratings
  - Magnetic Properties Of Layered Transition Metal Compounds and Bestseller Lists

5. Accessing Magnetic Properties Of Layered Transition Metal Compounds Free and Paid eBooks
  - Magnetic Properties Of Layered Transition Metal Compounds Public Domain eBooks
  - Magnetic Properties Of Layered Transition Metal Compounds eBook Subscription Services
  - Magnetic Properties Of Layered Transition Metal Compounds Budget-Friendly Options
6. Navigating Magnetic Properties Of Layered Transition Metal Compounds eBook Formats
  - ePub, PDF, MOBI, and More
  - Magnetic Properties Of Layered Transition Metal Compounds Compatibility with Devices
  - Magnetic Properties Of Layered Transition Metal Compounds Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Magnetic Properties Of Layered Transition Metal Compounds
  - Highlighting and Note-Taking Magnetic Properties Of Layered Transition Metal Compounds
  - Interactive Elements Magnetic Properties Of Layered Transition Metal Compounds
8. Staying Engaged with Magnetic Properties Of Layered Transition Metal Compounds
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Magnetic Properties Of Layered Transition Metal Compounds
9. Balancing eBooks and Physical Books Magnetic Properties Of Layered Transition Metal Compounds
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Magnetic Properties Of Layered Transition Metal Compounds
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Magnetic Properties Of Layered Transition Metal Compounds
  - Setting Reading Goals Magnetic Properties Of Layered Transition Metal Compounds
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Magnetic Properties Of Layered Transition Metal Compounds
  - Fact-Checking eBook Content of Magnetic Properties Of Layered Transition Metal 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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