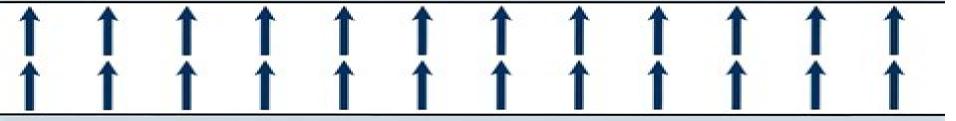
# Magnetic Materials

Edited by K. H. J. Buschow

> VOLUME 11



North-Holland

# **Handbook Magnetic Materials K H J Buschow**

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### **Handbook Magnetic Materials K H J Buschow:**

Handbook of Magnetic Materials K.H.J. Buschow, 2003-12-03 Volume 15 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 15 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and Handbook of Magnetic Materials K.H.J. Buschow, 2001 Volume 13 of the Handbook of achievements in magnetism Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 13 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science In Chapter 1 of this volume a general review of the experimental work on interlayer exchange coupling is presented along with a discussion of the current understanding of this field There exists an extensive amount of scientific efforts devoted to 4f and 5f systems including experimental and theoretical as well as basic and applied research Chapter 2 aims at reviewing a part of these efforts from the viewpoint of microscopic theory Special attention is paid to the many new developments in the field One of the intentions is to bring to the fore the darker areas of DFT theory applications A review of novel experimental results and first principle energy band calculations of MOKE spectra will be presented in Chapter 3 Conventional co operative phenomena such as long range order and elementary excitation have realisations in nonmagnetic situations This applies also to the phenomena of geometrical frustration In Chapter 4 this topic is addressed by developing the basic principles underlying the magnetic phenomena

Handbook of Magnetic Materials ,1999-11-19 This volume is composed of topical review articles written by leading authorities in the field As in previous volumes in the series each article presents an extensive description in graphical as well as in tabular form placing emphasis on the discussion of the experimental material in the framework of physics chemistry and material science Chapter one focuses on GMR in magnetic multilayers spin valves multilayers on grooved substrates and multilayered nanowires Furthermore it comprises theoretical models and employs the experimental data to discuss the current understanding of GMR and the underlying physics A key aspect of the study of the properties of thin magnetic films and multilayers is the relationship between the structural and magnetic properties of the material which has become one of

the most active areas of research in magnetism in recent years NMR is a well known technique that offers the possibility to obtain experimental information on atomic scale properties in systems with reduced dimensionality Chapter two reviews the results obtained by NMR on the latter systems Written in tutorial style it will be helpful to scientists familiar with the preparation and properties of thin magnetic films but having little knowledge of the NMR of ferromagnetic materials Chapter three examines rare earth compounds with 3d transition metals in particular those that exhibit a magnetic instability of the 3d subsystem It focuses on such compounds in which the d electron subsystem is neither non magnetic nor carries a stable magnetic moment The last chapter is concerned with the promising technology of magnetic refrigeration which can be used in a broad range of applications It is based on the magnetocaloric effect associated with the entropy change occurring when a magnetic material is isothermally subjected to a changing magnetic field and the temperature change when the field is changed adiabatically The last decade has witnessed quite a strong development in magnetic cooling technology and research activities in this field have been extended to a variety of magnetocaloric materials including amorphous alloys nanocomposites intermetallic compounds and perovskite type oxides The many materials their magnetocaloric efficiency as well as the physical principles behind it are reviewed in this final chapter Handbook of Magnetic Materials K. H. J. Buschow, E. P Wohlfarth, 1980 Handbook of Magnetic Materials K.H.J. Buschow, 2007-12-15 Volume 17 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 17 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and achievements in magnetism composed of topical review articles written by leading authorities intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism as a work of reference it is intended for scientists active in magnetism research provide the readership with novel trends and achievements in magnetism Rare-earth Iron Permanent Magnets J. M. D. Coey, 1996 Rare earth iron permanent magnets combine the magnetization of iron or cobalt with the anisotropy of a light rare earth in intermetallic compounds which exhibit nearly ideal hysteresis The rare earth iron magnets are now indispensable components of a vast range of electronic and electromechanical devices This book covers the principles of permanent magnetism magnet processing and applications in a series of interlocking chapters written by experts in each area Born of experience of the Concerted European Action on Magnets it is a definitive account of the field designed to be read by physicists materials scientists and electrical engineers Handbook of Magnetic Materials Ekkes H. Brück, 2019-11-20 Handbook of Magnetic Materials Volume 28 covers the

expansion of magnetism over the past few decades and its applications in research notably the magnetism of several classes of novel materials that share the presence of magnetic moments with truly ferromagnetic materials. The book is an ideal reference for scientists active in magnetism research providing readers with novel trends and achievements in magnetism Each article contains an extensive description given in graphical as well as tabular form with much emphasis placed on the discussion of the experimental material within the framework of physics chemistry and materials science Comprises topical review articles written by leading authorities Includes a variety of self contained introductions to a given area in the field of magnetism without requiring recourse to the published literature Introduces given topics in the field of magnetism Describes novel trends and achievements in magnetism Concise Encyclopedia of Magnetic and Superconducting Materials K.H.J. Buschow, 2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest Fundamentals and Applications of Magnetic Materials Kannan M. Krishnan, 2016 This book provides a comprehensive discussion of magnetism magnetic materials and related applications It covers the physics of magnetism magnetic phenomena in materials size and dimensionality effects and applications including information storage Ferromagnetic Materials E. P. Wohlfarth, K. H. J. Buschow, 1980 Volume 20 of the spin electronics and biomedicine Handbook of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to help those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 20 is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides readers with novel trends and achievements in magnetism Publisher s note Handbook of Magnetic Materials Kurt Heinz Jurgen Buschow, 1993 Magnetism and Magnetic Materials J. M. D. Coey, 2010-03-25 An essential textbook for graduate courses on magnetism and an important source of practical reference data **Nanoscale Magnetic Materials** 

and Applications J. Ping Liu, Eric Fullerton, Oliver Gutfleisch, D.J. Sellmyer, 2010-04-05 Nanoscale Magnetic Materials and Applications covers exciting new developments in the field of advanced magnetic materials Readers will find valuable reviews of the current experimental and theoretical work on novel magnetic structures nanocomposite magnets spintronic materials domain structure and domain wall motion in addition to nanoparticles and patterned magnetic recording media Cutting edge applications in the field are described by leading experts from academic and industrial communities These include new devices based on domain wall motion magnetic sensors derived from both giant and tunneling magnetoresistance thin film devices in micro electromechanical systems and nanoparticle applications in biomedicine In addition to providing an introduction to the advances in magnetic materials and applications at the nanoscale this volume also presents emerging materials and phenomena such as magnetocaloric and ferromagnetic shape memory materials which motivate future development in this exciting field Nanoscale Magnetic Materials and Applications also features a foreword written by Peter Gr nberg recipient of the 2007 Nobel Prize in Physics Magnetic Materials and Technologies for Medical Applications Alexander Tishin, 2021-11-18 The study of electromagnetic fields in the treatment of various diseases is not a new one however we are still learning how magnetic fields impact the human body and its organs Many novel magnetic materials and technologies could potentially transform medicine Magnetic Materials and Technologies for Medical Applications explores these current and emerging technologies Beginning with foundational knowledge on the basics of magnetism this book then details the approaches and methods used in the creation of novel magnetic materials and devices This book also discusses current technologies and applications as well as the commercial aspects of introducing new technologies to the field This book serves as an excellent introduction for early career researchers or a reference to more experienced researchers who wish to stay abreast of current trends and developing technologies in the field This book could also be used by clinicians working in medicine and companies interested in establishing new medical technologies Each chapter provides novel tasks for future scientific and technology research studies Outlines the basics of magnetism for enhanced understanding of its applications in medicine Covers novel magnetic devices as well as technologies still under development including magnetic brain stimulation biosensors and nanoparticles for drug delivery Explores commercial opportunities and obstacles to market entry for new magnetic materials and technologies for the medical field PHYSICAL METHODS, INSTRUMENTS AND MEASUREMENTS - Volume III Yuri Mikhailovich Tsipenyuk, 2009-04-15 Physical Methods Instruments and Measurements theme is a component of the Encyclopedia of Physical Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty Encyclopedias The Theme provides a complete survey of the present status of our knowledge of modern physical instruments and measurements It is organized in the following main topics Measurements and Measurement Standards Sources of Particles and Radiation Detectors and Sensors Imaging and Characterizing Trace Element Analysis Technology of Physical Experiments Applications of

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