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17 Rare Earth Metals

Magnetic Properties Of Rare Earth Metals

Samuel Hsi-peh Liu



Magnetic Properties Of Rare Earth Metals:

Magnetic Properties of Rare Earth Metals R. Elliott, 2013-06-29 The rare earths have a unique place among the elements. Although very much alike chemically and in most physical properties, they each have very different and striking magnetic properties. The reason of course lies in their 4f electrons which determine the magnetic properties but have little effect on other chemical and physical behaviour. Although they are not rare, some indeed are among the more common heavy elements in the earth's crust. The difficulty of separation has meant that their intricate magnetic properties have only recently been unravelled. Now however the general pattern of their magnetism is well charted and the underlying theory is well understood. Both are thoroughly summarised in this book. It provides an excellent example of the kind of extensive synthesis which is possible with modern solid state physics; it represents only a high plateau in the ascent to complete understanding. But it will become clear to the reader that while the overall position is satisfactory, there are many details still to be elucidated experimentally and much to be done theoretically before all the underlying forces are identified and estimated from a priori calculations. It is hoped that the book will provide a useful stimulus in this direction. It should also be of use to those who are interested in related disciplines, for example the rare earth compounds or the transition metals. In addition, rare earths promise to be important technologically as alloy constituents. Rare Earth Magnetism Jens Jensen, Allan R.

Mackintosh, 1991-06-13 This monograph presents a unified and coherent account of a limited but important area of rare earth magnetism: the magnetic structures and excitations which both reflect the nature of the fundamental magnetic interactions of the metals.

Magnetic Properties of Rare Earth Metals R. Elliott, 2014-01-15 **Magnetic Properties of Rare-earth Metals** Samuel Hsi-peh Liu, 1960 Rare Earth and Transition Metal Doping of Semiconductor Materials Volkmar

Dierolf, Ian Ferguson, John M Zavada, 2016-02-23 Rare Earth and Transition Metal Doping of Semiconductor Materials explores traditional semiconductor devices that are based on control of the electron's electric charge. This book looks at the semiconductor materials used for spintronics applications, in particular focusing on wide band gap semiconductors doped with transition metals and rare earths. These materials are of particular commercial interest because their spin can be controlled at room temperature, a clear opposition to the most previous research on Gallium Arsenide which allowed for control of spins at supercold temperatures. Part One of the book explains the theory of magnetism in semiconductors while Part Two covers the growth of semiconductors for spintronics. Finally Part Three looks at the characterization and properties of semiconductors for spintronics with Part Four exploring the devices and the future direction of spintronics. **Extractive**

Metallurgy of Niobium A.K. Suri, 2017-11-13 The growth and development witnessed today in modern science, engineering and technology owes a heavy debt to the rare, refractory and reactive metals group of which niobium is a member. Extractive Metallurgy of Niobium presents a vivid account of the metal through its comprehensive discussions of properties and applications, resources and resource processing, chemical processing and compound preparation, metal extraction and

refining and consolidation Typical flow sheets adopted in some leading niobium producing countries for the beneficiation of various niobium sources are presented and various chemical processes for producing pure forms of niobium intermediates such as chloride fluoride and oxide are discussed The book also explains how to liberate the metal from its intermediates and describes the physico chemical principles involved It is an excellent reference for chemical metallurgists hydrometallurgists extraction and process metallurgists and minerals processors It is also valuable to a wide variety of scientists engineers technologists and students interested in the topic Magnetic Properties of Rare Earth Metals ; Edited by R.j. Elliott ,1972

Modern Permanent Magnets John J. Croat, John Ormerod, 2022-01-27 Modern Permanent Magnets provides an update on the status and recent technical developments that have occurred in the various families of permanent magnets produced today The book gives an overview of the key advances of permanent magnet materials that have occurred in the last twenty years Sections cover the history of permanent magnets their fundamental properties an overview of the important families of permanent magnets coatings used to protect permanent magnets and the various tests used to confirm specifications are discussed Finally the major applications for each family of permanent magnets and the size of the market is provided The book also includes an Appendix that provides a Glossary of Magnetic Terms to assist the readers in better understanding the technical terms used in other chapters This book is an ideal resource for materials scientists and engineers working in academia and industry R D Provides an in depth overview of all of the important families of permanent magnets produced today Includes background information on the fundamental properties of permanent magnets major applications of each family of permanent magnets and advances in coatings and coating technology Reviews the fundamentals of permanent magnet design

Rare Earth-Based Corrosion Inhibitors Maria Forsyth, Bruce Hinton, 2014-08-12 Corrosion inhibitors are an important method for minimizing corrosion however traditional inhibitors such as chromates pose environmental problems Rare earth metals provide an important environmentally friendly alternative This book provides a comprehensive review of current research and examines how rare earth metals can be used to prevent corrosion and applied to protect metals in such industries as aerospace and construction Chapter 1 begins by examining the important need to replace chromate and then goes on to discuss the chemistry of the rare earth metals and their related compounds Chapter 2 considers the techniques that can be used to identify corrosion inhibition mechanisms and to test the levels of protection offered to different metals by rare earth compounds Subsequent chapters consider in more detail how rare earth elements can be used as corrosion inhibitors in different forms and for different metals This includes discussion on the potential of rare earth elements for self healing tunable and multifunctional coatings Finally chapter 10 considers the cost and availability of the rare earths and the potential health and environmental risks associated with extracting them Provides a review of current research and examines how rare earth metals can be used to prevent corrosion and applied to protect metals in such industries as aerospace and construction Includes discussion on the potential of rare earth elements for self healing tunable

and multifunctional coatings Considers the cost and availability of the rare earths and the potential health and environmental risks associated with extracting them Rare Earth Materials A.R. Jha,2014-06-17 Recent studies indicate that China accounts for about 96 percent of the world s supply of rare earth materials REMs With REMs becoming increasingly important for a growing number of high tech applications appropriate action must be taken to mitigate the effects of a shortage of critical REMs in defense systems and components Bringing together i **Binary Rare Earth Oxides** G. Adachi,Nobuhito Imanaka,Z.C. Kang,2004-09 Binary Rare Earth Oxides is the first book in the field of rare earth oxides that provides coverage from the basic science through to recent advances This book introduces the unique characteristics of the binary rare earth oxides with their chemistry physics and applications It provides a comprehensive review of all the characteristics of rare earth oxides essential for scientists and engineers involved with rare earths oxides inorganic materials ceramics and structures The binary rare earth oxides bring us a variety of interesting characteristics Understanding their fundamental mechanisms builds a bridge between solid state chemistry and materials science The book begins with a brief introduction to binary rare earth oxides their physical and chemical stabilities polymorphism crystal structures and phase transformation and the association with current applications The book goes on to present the band structure of the oxides using several quantum chemical calculations which belong to a newly developed area in the binary rare earth oxides Central to this chapter are the characterizations of electrical magnetic and optical properties as well as details of single crystal growth and particle preparation methods that have progressed in recent years Later chapters concentrate on thermo chemical properties and trace determination techniques The final chapter contains a variety of useful applications in various fields such as phosphors glass abrasives automotive catalysts fuel cells solid electrolytes sunscreens iron steels and biological materials This book is an invaluable resource for materials scientists and solid state physicists and chemists with an interest in rare earth oxides as well as advanced students and graduates who require an approach to familiarize them with this field This book provides guidance through a comprehensive review of all the characteristics of binary rare earth oxides

Magnetic Properties of Rare Earth Metals and Alloys Charles Robert Burr,1967 **Handbook of Magnetic Materials** Ekkes H. Brück,2020-11-29 Handbook of Magnetic Materials Volume 29 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors on topics such as spin orbit torque Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Magnetic Materials series **Internal Magnetic Properties in Rare Earth Metals and Compounds** Mikael Ekström,1999 Rare Earth Frontiers Julie M. Klinger,2018-01-15 Rare Earth Frontiers is a timely text As Klinger notes rare earths are neither rare nor technically earths but they are still widely believed to be both Although her approach focuses on the human or cultural geography of rare earths mining she does not ignore the geological occurrence of these mineral types both on Earth and on the moon This volume is excellently organized insightfully written and extensively

sourced Choice Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon

Magnetic Properties of Metals H.P.J. Wijn, 2012-12-06 During the last decades the knowledge of the magnetic properties of the d transition elements and of their metallic alloys and compounds has increased widely The improvement of preparation techniques for well defined substances the development of sophisticated measuring methods and above all the drive to obtain more insight in the origin of magnetic interactions in solids have resulted in the publication of many specific magnetic properties for an abundance of all kinds of metallic materials The data assembled in this booklet are selected from the comprehensive compilation of magnetic and related properties of metals in the Landolt Bornstein New Series Group III sub volumes 19a band c It has been attempted to include preferentially those properties which are of a basic character and which therefore are most often needed by scientists active in the field of solid state magnetism In the field of magnetism there is a gradual transition from the use of cgs emu units to SI units It was however not intended to represent all data in the units of one system regardless of how nice this would have been from a systematic point of view Instead mostly preference was given to the system of units that was originally used by the authors whose work is quoted Thus cgs emu units occur most frequently Of course the user of the tables and figures is helped in several ways to convert the data to the units which he is most familiar with see e g Localized to Itinerant Electronic Transition in Perovskite Oxides S.L. Cooper, 2001-02-26 Interest in the transition metal oxides with perovskite related structures goes back to the 1950s when the sodium tungsten bronzes Na_xWO_3 were shown to be metallic 1 the system $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ was found to contain a ferromagnetic conductive phase 2 and $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ was reported to be a ferromagnetic metal but with a peculiar magnetization of 1.5 a Co atom 3 Stoichiometric oxide perovskites have the generic formula AMO_3 in which the A site is at the center of a simple cubic array of M sites the oxide ions form $\frac{1}{2}(4M-O-M)$ bridges to give an MO_3 array of corner shared MO_6 octahedra and the larger A cations have twelvefold oxygen coordination Mismatch between the A-O and M-O equilibrium bond lengths introduces

internal stresses A compressive stress on the MO₃ array is accommodated by a lowering of the M O M bond angle from 180 to 180.4 a tensile stress on the M O M bonds is accommodated by the formation of hexagonal polytypes 4 **Rare Earths** Jacques Lucas, Pierre Lucas, Thierry Le Mercier, Alain Rollat, William G. Davenport, 2014-09-09 High technology and environmental applications of the rare earth elements REE have grown dramatically in diversity and importance over the past four decades This book provides a scientific understanding of rare earth properties and uses present and future It also points the way to efficient recycle of the rare earths in end of use products and efficient use of rare earths in new products Scientists and students will appreciate the book's approach to the availability structure and properties of rare earths and how they have led to myriad critical uses present and future Experts should buy this book to get an integrated picture of production and use present and future of rare earths and the science behind this picture This book will prove valuable to non scientists as well in order to get an integrated picture of production and use of rare earths in the 21st Century and the science behind this picture Defines the chemical physical and structural properties of rare earths Gives the reader a basic understanding of what rare earths can do for us Describes uses of each rare earth with chemical physics and structural explanations for the properties that underlie those uses Allows the reader to understand how rare earths behave and why they are used in present applications and will be used in future applications Explains to the reader where and how rare earths are found and produced and how they are best recycled to minimize environmental impact and energy and water consumption **Magnetic Properties of Rare Earth Metals at Very Low Temperatures** Hugo Leipfing, 1957

Systematics and the Properties of the Lanthanides Shyama P. Sinha, 2012-12-06 Science is not a mere collection of facts It is the correlation of facts the interpretative synthesis of the available knowledge and its application that excite the imagination of a scientist Even in these days of modern technology the need for quick and accurate dissemination of new information and current concepts still exists Conferences and Symposia offer one direct method of communication The Summer Schools are another approach The success of a Summer School is mainly due to that human factor and understanding that goes with it and allows for extensive and often time unrestricted discussions During the course of the past 20 years one of the most intensively studied groups of elements in the Periodic Table is the Lanthanides In this period we have increased our knowledge on these once exotic elements which were once considered to be a part of a lean and hungry industry many fold due to the involvement of scientists from various disciplines The purpose of our Summer School was to bring a group of experts and participants together for the exchange of ideas and information in an informal setting and to promote interdisciplinary interactions Out of many conceivable topics we selected the following five as the main basis to broaden our knowledge and understanding 1 Systematics 2 Structure 3 Electronic and Magnetic Properties 4 Spectroscopic Properties and 5 Lanthanide Geochemistry

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