

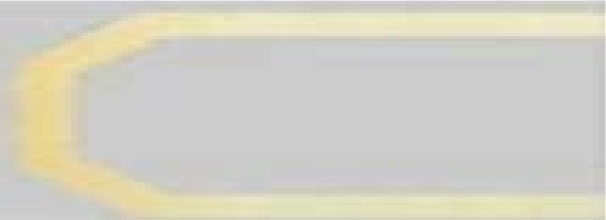
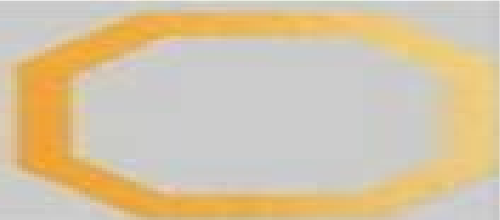


K.A. Gschneidner, Jr. and L. Eyring
Editors

**HANDBOOK ON THE
PHYSICS AND CHEMISTRY OF
RARE EARTHS**

Volume 29
The Role of Rare Earths in Catalysis

and



Handbook On The Physics Chemistry Of Rare

N Noddings



Handbook On The Physics Chemistry Of Rare:

Handbook on the Physics and Chemistry of Rare Earths Karl A. Gschneidner (Jr.), L. Eyring, 2000-07-11 Even at the beginning of the new millenium the rare earths still remain to a certain extent a mystery The chapters in this volume will help to unravel some of these In the filling of the 4f electronic orbitals the lanthanides defy the elementary aufbau principle that underlies the periodic sequence of the elements and the authors of the first chapter introduce the readers to the basic physics of the orbital collapse leading to that failure Furthermore an explanation is offered in terms of double well potentials The phenomenon is illustrated using the valence transitions observed in some of the rare earth atoms including Sm group metals and the higher oxides of cerium praseodymium and terbium In the second chapter the synthesis and structure of the many types of rare earth halides are described They have been described as simple complex binary ternary and multinuclear complex and other categories needed to deal with the most studied of the rare earth compounds The structure types are skillfully illustrated to show the elementary architecture of each type In chapter three the authors discuss the science and applications of rare earth super ionic conductors as solid electrolytes Conduction by oxygen and fluorine anions as well as hydrogen and other cations associated with these electrolytes is emphasized They deal with extrinsic and intrinsic types together with their associated structures and structural types including structural defects The chapter concludes with an outline of the many applications of solid electrolytes Chapter four introduces the reader to the principles that underlie thermoluminescence and its application to dosimetry and provides detailed information on the R activated phosphors that support dosimetry This is a selective review of detailed literature based on the areas making most progress The final chapter elaborates on the data gained by the studies and interpretation around the analytical separation of the individual rare earth elements utilizing chromatographic techniques The authors describe the fundamental chemistry that underpins contemporary analytical separation techniques for lanthanide separation and analysis This is done after a description of the rich assortment of separation methods in use has been introduced

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The rare earths play a unique role in science These seventeen related elements afford a panoply of subtle variations deriving from the systematic development of their electronic configurations allowing a test of theory with excellent resolution In contrast they find widespread use in even the most mundane processes such as steel making for polishing materials and gasoline cracking catalysts In between are exotic uses such as TV screen phosphors lasers high strength permanent magnets and chemical probes This multi volume handbook covers the entire rare earth field in an integrated manner Each chapter is a comprehensive up to date critical review of a particular segment of the field The work offers the researcher and graduate student alike a complete and thorough coverage of this fascinating field

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devoted to the rare earth based high temperature oxide superconductors commonly known as hiTC superconductors The history of hiTC superconductors is a few months short of being 14 years old when Bednorz and Müller published their results which showed that $\text{LaBa}_2\text{CuO}_4$ had a superconducting transition of 30 K which was about 7K higher than any other known superconducting material Within a year the upper temperature limit was raised to nearly 100K with the discovery of an 90K superconducting transition in $\text{YBa}_2\text{Cu}_3\text{O}_7$ The announcement of a superconductor with a transition temperature higher than the boiling point of liquid nitrogen set off a frenzy of research on trying to find other oxide hiTC superconductors Within a few months the maximum superconducting transition reached 110 K $\text{BiSr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ and then 122K $\text{TlBa}_2\text{Ca}_3\text{Cu}_4\text{O}_{11}$ It took several years to push TC up another 11 K to 133 K with the discovery of superconductivity in $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$ which is still the record holder today

Lanthanides-Actinides K. A. Gschneidner, Jr., Karl A. Gschneidner, Leroy Eyring, G. H. Lander, Gregory R. Choppin, 1993 Hardbound This volume of the Handbook is the first of a three volume set of reviews devoted to the interrelationships similarities differences and contrasts of the lanthanide and actinide series of elements In order to comprehensively cover this large field two leading scientists G H Lander and G R Choppin were invited to be guest editors for this special set of volumes Together the four editors carefully and critically chose the various topics and invited the appropriate experts to write reviews keeping in mind that the emphasis was to be on the interrelationships of the lanthanides and actinides The volume contains eight chapters concerned with some of the physical aspects of the lanthanide and actinide series The first three chapters are theoretical in nature and the last five are more heavily oriented towards experimental studies

Handbook on the Physics and Chemistry of Rare Earths, 1991-08-07 This volume differs somewhat from the previous volumes in the series in that there is a strong emphasis on the physical aspects and not so much on the chemical aspects of intermetallic compounds Two of the chapters are concerned with relatively new experimental methods of studying rare earth metallic phases high energy neutron spectroscopy and light scattering In these chapters the authors explain the new kinds of information one obtains from these techniques and how this complements the knowledge previously gleaned from the more common measurements such as NMR heat capacities magnetic susceptibility transport and elastic properties One of the remaining three chapters deals with NMR studies of rare earth intermetallics and the final two chapters are concerned not so much with a particular experimental technique but with physical phenomena that occur in these compounds the electron phonon interaction and heavy fermion behavior

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theory with excellent resolution In contrast they find widespread use in even the most mundane processes such as steel making for polishing materials and gasoline cracking catalysts In between are exotic uses such as TV screen phosphors lasers high strength permanent magnets and chemical probes This multi volume handbook covers the entire rare earth field in an integrated manner Each chapter is a comprehensive up to date critical review of a particular segment of the field The work offers the researcher and graduate student alike a complete and thorough coverage of this fascinating field **Handbook on the Physics and Chemistry of Rare Earths** ,1978

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