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Pecharsky Vitalij, Jean-Claude G. Bunzli



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Handbook on the Physics and Chemistry of Rare Earths, 2018-07-24 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 53 is a continuous series covering all aspects of rare earth science including chemistry life sciences materials science and physics The book focuses on rare earth elements Sc Y and the lanthanides La through Lu but when relevant information is included on the related actinide elements Individual chapters are comprehensive up to date critical reviews written by highly experienced invited experts with this release including chapters on a Comparison of the Electronic Properties of Lanthanides with Formally Isoelectronic Actinides Redox catalysis with redox inactive rare earth ions in artificial photosynthesis and more The series which was started in 1978 by Professor Karl A Gschneidner Jr combines and integrates both the fundamentals and applications of these elements with two published volumes each year Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad with critical reviews Provides contributions from highly experienced invited experts *Rare Earths and Actinides* Renato G. Bautista, Brajendra Mishra, 2000 **Rare-Earth Metal Recovery for Green Technologies** Rajesh Kumar Jyothi, 2020-03-25 This book examines the development use extraction and recovery of rare earth metals Rare earth elements REEs occupy a key role in daily life in industrial applications They are one of the critical elements for energy and sustainable growth REEs are utilized in many modern electrical and electronic devices such as smart phones computers LED lights etc Recovery of the REEs from secondary resources represents a way to meet the growing demand for electronic devices Because of their rarity utility and importance the recovery utilization and recycling of rare earth metals is of utmost importance This book presents both current methods of processing rare earths from primary and secondary sources and new green routes for their isolation and purification The book also addresses their utilization re use reduction and recycling policies that exist globally Applications in metallurgy magnets ceramics electronics and chemical optical and nuclear technologies are discussed Handbook on the Physics and Chemistry of Rare Earths J.-C. G. Bünzli, Vitalij K. Pecharsky, 2013-09-28 The rare earths represent a group of chemical elements the lanthanides together with scandium and yttrium which exhibit similar chemical properties They are strategically important to developed and developing nations because they have several applications in catalysis the defense industry aerospace the materials and life sciences and in sustainable energy technologies The Handbook on the Physics and Chemistry of the Rare Earths is a continuing authoritative series that deals with the science and technology of the rare earth elements 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 a complete and thorough coverage of this fascinating field Individual chapters are comprehensive broad critical reviews Contributions are written by highly experienced invited experts Gives an up to date overview of developments in the field **Extractive Metallurgy of Rare Earths** Nagaiyar Krishnamurthy, 2015-12-02 New Edition Now Covers

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The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15-26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third group chapters 27-39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment actinide waste forms nuclear fuels analytical chemistry of plutonium actinide chalcogenide and hydrothermal synthesis of actinide compounds The subject and author indices and list of contributors encompass all six volumes

Handbook on the Physics and Chemistry of Rare Earths Pecharsky Vitalij, Jean-Claude G.

Bunzli,2020-08-27 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 57 is a continuous series of books covering all aspects of rare earth science including chemistry life sciences materials science and physics The book s main emphasis is on rare earth elements Sc Y and the lanthanides La through Lu but whenever relevant information is also included on the closely related actinide elements Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad along with critical reviews Provides contributions from highly experienced invited experts *Handbook on the Physics and Chemistry of Rare Earths* Jean-Claude G. Bunzli,Vitalij K. Pecharsky,2021-10-30 Handbook on the Physics and Chemistry of Rare Earths Including Actinides Volume 60 presents the latest release in this continuous series that covers all aspects of rare earth science including chemistry life sciences materials science and physics Presents up to date overviews and new developments in the field of rare earths covering both their physics and chemistry Contains individual chapters that are comprehensive and broad along with critical reviews Provides contributions from highly experienced invited experts

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