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As one of the first books to present such a comprehensive treatment of the topic, Rare Earth Coordination Chemistry: Fundamentals and Applications is ideal for postgraduates and researchers in inorganic chemistry, particularly those focusing on rare earth chemistry or lanthanide chemistry. Developed for classroom use, the book has the potential to become a main text for an advanced course on F-block.

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Coordination Chemistry From the chemical point of view, Ln III ions behave like hard Lewis acids and their bonding is essentially electrostatic, with small covalent contributions. Generally speaking, therefore, they prefer to form complexes with oxygen donors than with softer donors like nitrogen or sulfur.

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Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth. Consisting of two parts, Fundamentals and Applications, readers are armed with the systematic basic aspects of rare earth coordination chemistry and presented with the latest developments in the applications of rare earths. The systematic introduction of basic knowledge, application technology and the latest developments in the field, makes this ideal for readers across both introductory and specialist levels.

Lanthanides are of great importance for the electronic industries, this new book (from the EIBC Book Series) provides a comprehensive coverage of the basic chemistry, particularly inorganic chemistry, of the lanthanoid elements, those having a 4f shell of electrons. A chapter is describing the similarity of the Group 3 elements, Sc, Y, La, the group from which the lanthanoids originate and the group 13 elements, particularly aluminum, having similar properties. Inclusion of the group 3 and 13 elements demonstrates how the lanthanoid elements relate to other, more common, elements in the Periodic Table. Beginning chapters describe the occurrence and mineralogy of the elements, with a focus on structural features observed in compounds described in later chapters. The majority of the chapters is organized by the oxidation state of the elements, Ln(0), Ln(II), Ln(III), and

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Ln(IV). Within this organization the chapters are further distinguished by type of compound, inorganic (oxides and hydroxides, aqueous speciation, halides, alkoxides, amides and thiolates, and chelates) and organometallic. Concluding chapters deal with diverse and critically important applications of the lanthanoids in electronic and magnetic materials, and medical imaging.

This work introduces into the chemistry, materials science and technology of Rare Earth Elements. The chapters by experienced lecturers describe comprehensively the recent studies of their characteristics, properties and applications in functional materials. Due to the broad range of covered topics as hydrogen storage materials, LEDs or permanent magnets this work gives an up-to-date presentation of this fascinating research.

Handbook on the Physics and Chemistry of Rare Earths is a continuing series of books covering all aspects of rare earth science, including chemistry, life sciences, materials science, and physics. The handbook emphasizes rare earth elements [Sc, Y and the lanthanides (La through Lu)] but, when relevant, information also is included about the closely related actinide elements. The individual chapters are comprehensive, broad, up-to-date critical reviews written by highly

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experienced invited experts. The series, which was started in 1978 by Professor Karl A. Gschneidner, Jr., combines and integrates both the fundamentals and applications of these elements and now publishes two volumes a year. Covers all aspects of rare earth science, including chemistry, life sciences, materials science, and physics. Includes contributions from highly experienced, invited experts Provides comprehensive, up-to-date critical reviews of developments in the field Combines and integrates both the fundamentals and applications of rare earth elements

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

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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.

This book presents advanced photocatalytic technologies for wastewater treatment. The fabrication, surface modification, roles and mechanisms of green catalysts are detailed. The catalysts include nanostructured catalysts, semiconductors, metal and non-metal doped catalysts, surface plasmon materials, graphene oxide-based materials, polymer-based composite materials, heterogenous type I and type II catalysts.

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The Lanthanides and Actinides: Synthesis, Reactivity, Properties and Applications constitutes an introduction to and comprehensive coverage of f-block chemistry encompassing the following areas: periodicity, natural occurrence and extraction, separations, electronic structure, coordination chemistry, organometallic chemistry, small molecule activation, catalysis, organic synthesis applications, magnetism, spectroscopy, computation, materials, photonics, solar cell

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technology, biological imaging, and technological applications. Under these subject areas the book provides a broad but deep coverage, providing basic overviews as well as detailed chapters on specific areas. This book, targeted at academics, postgraduates and advanced undergraduates, will serve as an ideal introductory text and key reference work to the Lanthanides and Actinides.

The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications. The first section of the book describes the historical development of inorganic photochemistry, along with the fundamentals related to this multidisciplinary scientific field. The main experimental techniques employed in state-of-art studies are described in detail in the second section followed by a third section including theoretical investigations in the field. In the next three sections, the photophysical and photochemical properties of coordination compounds, supramolecular systems and inorganic semiconductors are summarized by experts on these materials. Finally, the application of photoactive inorganic compounds in key sectors of our society is highlighted. The sections cover applications in bioimaging and sensing, drug delivery and cancer therapy, solar energy conversion to electricity and fuels, organic synthesis, environmental remediation and optoelectronics among

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others. The chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research. This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia.

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