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This volume of the Handbook on the Physics and Chemistry of Rare Earth begins with a Dedication to late Professor LeRoy Eyring who had been a committed co-editor of the first 32 volumes of this series. This is followed by four chapters, the first two pertaining to solid state physics and materials science, while the last two chapters describe organic (and inorganic) reactions mediated by tetravalent cerium-based oxidants and by divalent samarium-based reductants. Chapter 227 is devoted to the description of the crystal chemistry and physical properties of rare-

earth bismuthides, a class of compounds showing large similarities with the rare-earth antimonides previously reviewed in volume 33 of this series. The fascinating optical and electric properties of rare-earth hydride films displaying a switchable mirror effect as a function of hydrogen pressure, i.e. from a shiny metallic state to a transparent insulating film with increasing pressure, are described in Chapter 228, along with their fabrication methods. Many chemical reactions take advantage of the tetravalent/trivalent Ce(IV)/Ce(III) redox couple and many of its potential applications are presented in

Chapter 229, from analytical procedures, to electrosynthesis, and organic and industrial (polymerization) reactions. The last review (Chapter 230) focuses on the synthesis and use of divalent samarium-based reductants in organic and inorganic reactions, mainly on those containing iodide and pentamethylcyclopentadienyl ligands. · Authoritative · Comprehensive · Up-to-date · Critical · Reliable Handbook on the Physics and Chemistry of Rare Earths Elsevier Succeed in chemistry with the clear explanations, problem-solving strategies,

and dynamic study tools of CHEMISTRY & CHEMICAL REACTIVITY, 9e. Combining thorough instruction with the powerful multimedia tools you need to develop a deeper understanding of general chemistry concepts, the text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The art program illustrates each of these levels in engaging detail--and is fully integrated with key media components. In addition

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