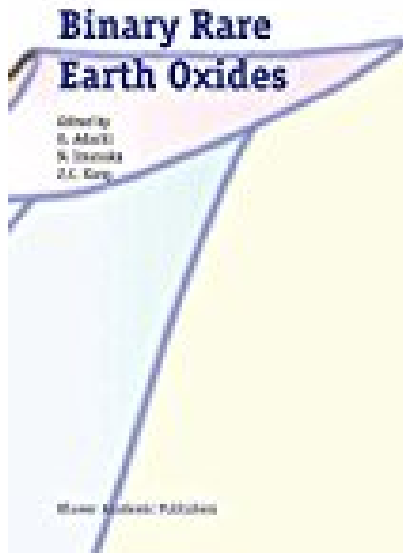


Binary Rare Earth Oxides



BOOK DETAILS

- Author :
- Pages : 257 Pages
- Publisher : Springer
- Language : English
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BOOK SYNOPSIS

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.

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