



## Rare Earth Materials: Properties and Applications (Hardback)

---

By A. R. Jha

Taylor Francis Inc, United States, 2014. Hardback. Book Condition: New. 234 x 160 mm. Language: English . Brand New Book. Recent studies indicate that China accounts for about 96 percent of the world's supply of rare earth materials (REMs). With REMs becoming increasingly important for a growing number of high-tech applications, appropriate action must be taken to mitigate the effects of a shortage of critical REMs in defense systems and components. Bringing together information previously available only from disparate journal articles and databases, *Rare Earth Materials: Properties and Applications* describes the unique characteristics and applications of 17 REMs. It defines their chemical, electrical, thermal, and optical characteristics. Maintaining a focus on physical and chemical properties, it addresses the history and critical issues pertaining to mining and processing of REMs. In this book, Dr. A.R. Jha continues his distinguished track record of distilling complex theoretical physical concepts into an understandable technical framework that can be extended to practical applications across commercial and industrial frameworks. He summarizes the chemical, optical, electrical, thermal, magnetic, and spectroscopic properties of REMs best suited for next-generation commercial and military systems or equipment. Coverage includes extraction, recycling, refinement, visual inspection, identification of spectroscopic parameters, quality control,...



**READ ONLINE**  
[ 9.23 MB ]

### Reviews

*Very beneficial to all of class of people. I am quite late in start reading this one, but better then never. You may like just how the writer create this publication.*

**-- Audra Klocko PhD**

*Thorough information! Its this type of great go through. It is amongst the most incredible publication i actually have read through. It is extremely difficult to leave it before concluding, once you begin to read the book.*

**-- Germaine Welch**