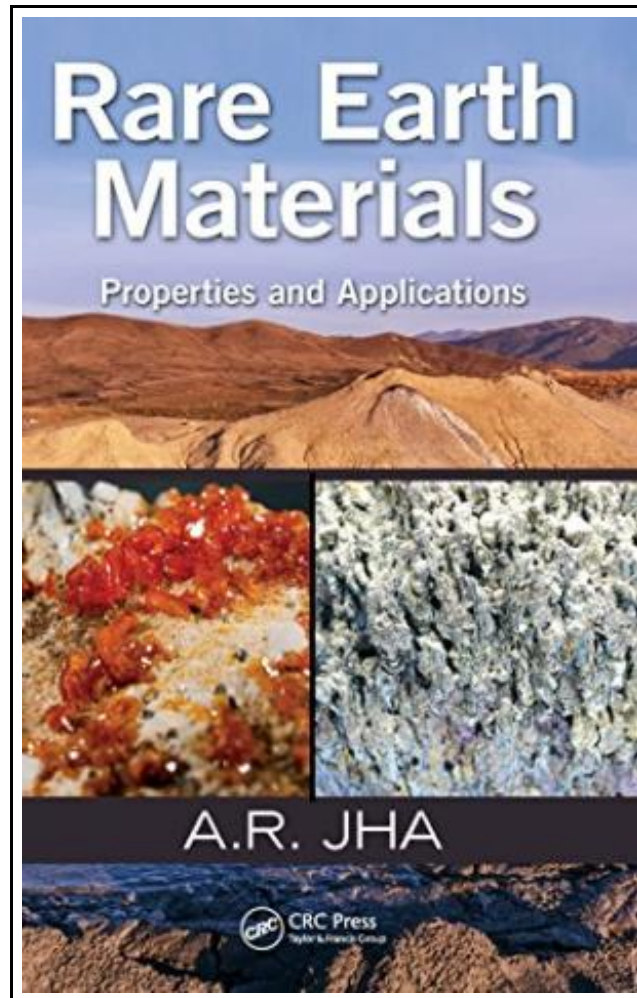


## Rare Earth Materials: Properties and Applications (Hardback)



Filesize: 1.13 MB

### ***Reviews***

*This book is great. I have go through and so i am confident that i will going to read through once again again in the future. I am just easily can get a satisfaction of looking at a written book.  
(Miss Vernie Schimmel)*

## RARE EARTH MATERIALS: PROPERTIES AND APPLICATIONS (HARDBACK)



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, element separation based on specific application, pricing control, and environmental / geo-political considerations. Potential applications are identified with an emphasis on scientific instruments, nuclear resonance imaging equipment, MRI systems, magnetic couplers for uranium enrichment equipment, battery-electrodes, electric motors, electric generators, underwater sensors, and commercial and military sensors. The book describes unique applications of rare earth magnets in all-electric and hybrid electric cars and microwave components. It also considers the use of rare earth magnets in commercial and military systems where weight and size are the critical design requirements. Suitable for both students and design engineers involved in the development of...



[Read Rare Earth Materials: Properties and Applications \(Hardback\) Online](#)

[Download PDF Rare Earth Materials: Properties and Applications \(Hardback\)](#)

## You May Also Like

---



### **I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book**

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy...

[Read ePub »](#)

---



### **Oxford First Illustrated Maths Dictionary**

Oxford University Press, United Kingdom, 2013. Paperback. Book Condition: New. 234 x 180 mm. Language: English . Brand New Book. The Oxford First Illustrated Maths Dictionary supports the curriculum and gives your child a head...

[Read ePub »](#)

---



### **Oxford Very First Dictionary**

Oxford University Press, United Kingdom, 2012. Paperback. Book Condition: New. Georgie Birkett (illustrator). 234 x 182 mm. Language: English . Brand New Book. A fully illustrated alphabetical first dictionary for 4-5 year-olds. A fresh new...

[Read ePub »](#)

---



### **Music for Children with Hearing Loss: A Resource for Parents and Teachers**

Oxford University Press Inc, United States, 2014. Paperback. Book Condition: New. 228 x 156 mm. Language: English . Brand New Book. Written by an expert in the field who is both a teacher and a...

[Read ePub »](#)

---



### **The First Epistle of H. N. a Crying-Voyce of the Holye Spirit of Loue. Translated Out of Base-Almayne Into English. (1574)**

Eebo Editions, Proquest, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now...

[Read ePub »](#)

**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: Cat in a Bag (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

[Read eBook »](#)

**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now

[Read eBook »](#)

**ESL Stories for Preschool: Book 1**

Createspace, United States, 2013. Paperback. Book Condition: New. 212 x 210 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.A big attractive colourful book for ESL beginners, aged 3 to 5. It

[Read eBook »](#)

**Readers Clubhouse Set B Time to Open**

Barron s Educational Series, United States, 2006. Paperback. Book Condition: New. 222 x 148 mm. Language: English . Brand New Book. This is volume nine, Reading Level 2, in a comprehensive program (Reading Levels 1

[Read eBook »](#)

**Valley Forge: The History and Legacy of the Most Famous Military Camp of the Revolutionary War**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.\*Includes pictures \*Includes accounts of Valley Forge written by Washington and other generals

[Read eBook »](#)