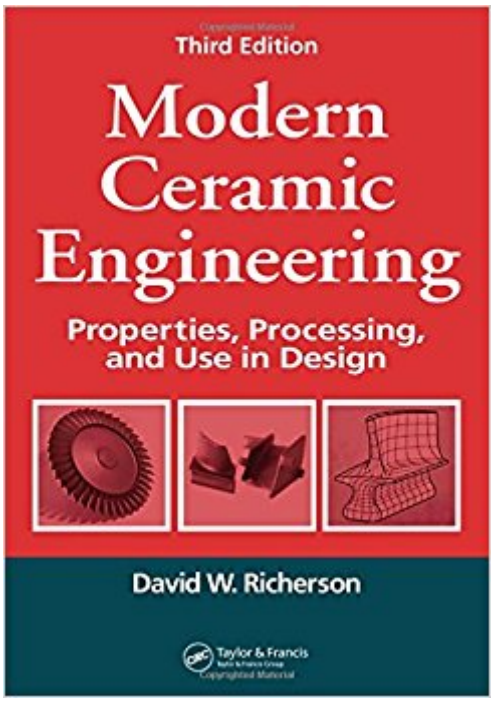
Ebook Directory
the best source of ebook

The book was found

Modern Ceramic Engineering: Properties, Processing, And Use In Design, 3rd Edition (Materials Engineering)



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

Ceramic materials have proven increasingly important in industry and in the fields of electronics, communications, optics, transportation, medicine, energy conversion and pollution control, aerospace, construction, and recreation. Professionals in these fields often require an improved understanding of the specific ceramics materials they are using. Modern Ceramic Engineering, Third Edition helps provide this by introducing the interrelationships between the structure, properties, processing, design concepts, and applications of advanced ceramics. This student-friendly textbook effectively links fundamentals and fabrication requirements to a wide range of interesting engineering application examples.A follow-up to our best-selling second edition, the new edition now includes the latest and most important technological advances in the field. The author emphasizes how ceramics differ from metals and organics and encourages the application of this knowledge for optimal materials selection and design. New topics discuss the definition of ceramics, the combinations of properties fulfilled by ceramics, the evolution of ceramics applications, and their importance in modern civilization. A new chapter provides a well-illustrated review of the latest applications using ceramics and discusses the design requirements that the ceramics must satisfy for each application. The book also updates its chapter on ceramic matrix composites and adds a new section on statistical process control to the chapter on quality assurance. Modern Ceramic Engineering, Third Edition offers a complete and authoritative introduction and reference to the definition, history, structure, processing, and design of ceramics for students and engineers using ceramics in a wide array of industries.

Book Information

Series: Materials Engineering (Book 29)
Hardcover: 707 pages
Publisher: CRC Press; 3rd edition (November 4, 2005)
Language: English
ISBN-10: 1574446932
ISBN-13: 978-1574446937
Product Dimensions: 7 x 1.6 x 10 inches
Shipping Weight: 3 pounds (View shipping rates and policies)
Average Customer Review: 3.9 out of 5 stars 9 customer reviews
Best Sellers Rank: #497,710 in Books (See Top 100 in Books) #16 inÃ Â Books > Engineering & Transportation > Engineering > Chemical > Coatings, Ceramics & Glass #34 inÃ Â Books >

Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing #71 inÃ Â Books > Engineering & Transportation > Engineering > Design

Customer Reviews

." . . a comprehensive introduction to the subject and contains many references. . . For students and engineers wishing to develop their knowledge of this class of engineering materials it forms a good introductory test." ---Chemical Engineering Science --This text refers to an out of print or unavailable edition of this title.

Richerson; David Richerson and Associates, Salt Lake City, Utah, USA, --This text refers to an out of print or unavailable edition of this title.

I am taking an Intro to Ceramics course; this is the book we use. The book is actually really interesting. The author sometimes even sounds tongue-in-cheek about things! The subject matter ranges over a wide array of manufacturing processes, quality assurance, and material properties. He also throws in a lot of information about phase diagrams and grain structure/growth. I myself am not a materials engineer, but I found the book engrossing (very strange for me!). I did the study guide questions, which I thought were very well written, and the questions at the end of the text.Two drawbacks only: 1) no answers to the study guide questions/back of the chapter questions, and 2) all the pictures are in black and white.

This is the 1992 edition of Modern Ceramic Engineering. I was looking for an inexpensive copy of a textbook on the subject and I found it. I am sure small changes in the later editions would be needed for a formal class on the subject. This older edition is just fine for an overview on the subject. This version satisfied my curiosity of the subject and the price was much less than the latest version. My combination of needing a good overview and a bargain price leads me to rate it with 4 stars.

This book is nice if you want to have an overall review about ceramics regarding their processing and properties.....Gives you probably all aspects of ceramics.....But if you want to have more focused or deep knowledge about one aspect of ceramics then this is not the book you want to refer to.....But all in all a great book to have in your collection.....Regarding delivery.....The book was supposed to come late but surprisingly got it very soon and that too in very good condition.....

This this text is outdated and extremely simplified. The ideal reader is someone who has never had a materials science course. You won’t get much out of this textbook if your looking for a detailed presentation of ceramic science and engineering.

Good book including carefully prepared ’review questions’when compared with previous version. Problems should also be revised. The introductory section on applications of ceramics was quiet satisfactory. Easy to understand the text and fluency in English is OK. Some demo programs for ceramic structures and for ceramic processing techniques if added in a CD or in web site will be very useful for students.

This is a pretty good introductory book to Ceramics. There are a few typos in this 3rd edition book, but that doesn’t distract from the main flow of it all. There are Review questions at the end of each chapter which are supposed to help one think about what s/he just read. Sometimes, the answer doesn’t really come until the next chapter, though. The Author has a good voice in his writing--it’s not totally technical jargon. So overall, good book.

book appears new and all is good except the binding busted second time i opened the book

I am offering my comments in my capacity as a course instructor. The reason why I recommend this book to my students is because it gives an excellent understanding of industrial applications of ceramic materials. The author has done a great job putting together his industrial experience. Most of the textbooks are written by university professors, who are sometimes ignorant about the industrial practices. This is more true in the rapidly changing field of materials science and engineering in general, and ceramics in particular. After having gone through all the ceramics related books that are currently available in the market, I feel Modern Ceramic Engineering (Materials Engineering) by David Richerson is the best option as a ceramic engineering textbook. The only drawback of this book is that it lacks smooth flow of ideas. Author could generate more interest among the readers by providing more schematics and by avoiding the paragraphs with cluttered information.

Download to continue reading...

Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering) Modern Ceramic Engineering: Properties, Processing, and Use in Design, 2nd Edition (Engineered Materials) Biomimetic Materials And Design: Biointerfacial Strategies, Tissue

Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Dental Materials: Properties and Manipulation, 9e (Dental Materials: Properties & Manipulation (Craig)) Dental Materials: Properties and Manipulation, 8e (Dental Materials: Properties & Manipulation (Craig)) Ceramic Processing And Sintering (Materials Engineering) Materials North American Edition w/Online Testing: Materials - North American Edition, Second Edition: engineering, science, processing and design Engineering Materials Technology: Structures, Processing, Properties, and Selection (5th Edition) Engineering Materials Technology: Structures, Processing, Properties and Selection (4th Edition) Materials: Engineering, Science, Processing and Design (Materials 3e North American Edition w/Online Testing) Engineering Materials 2: An Introduction to Microstructures, Processing and Design (International Series on Materials Science and Technology) (v. 2) Materials: Engineering, Science, Processing and Design (Materials 3e with Online Testing) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes) Engineering Materials 2, Fourth Edition: An Introduction to Microstructures and Processing (International Series on Materials Science and Technology) Engineering Materials 3: Materials Failure Analysis: Case Studies and Design Implications (International Series on Materials Science and Technology) (v. 3) Processing Techniques and Tribological Behavior of Composite Materials (Advances in Chemical and Materials Engineering) Materials, Third Edition: engineering, science, processing and design; North American Edition Materials Processing: A Unified Approach to Processing of Metals, Ceramics and Polymers Product Design for Manufacture and Assembly, Third Edition (Manufacturing Engineering and Materials Processing) Materials Engineering and Exploring Properties (Engineering in Action)

Contact Us

DMCA

Privacy

FAQ & Help