

## Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering)

By David W. Richerson

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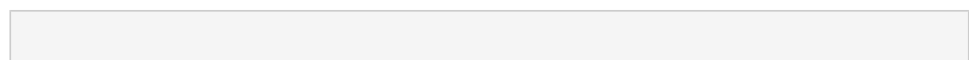
### Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering) By David W. Richerson

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.

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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.



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*By David W. Richerson*

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#### Review

" . . . 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 text." -  
--Chemical Engineering Science

#### About the Author

Richerson; David Richerson and Associates, Salt Lake City, Utah, USA,

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