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Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, integrated text. Building on a foundation of crystal structures, phase equilibria, defects and the mechanical properties of ceramic materials, students are shown how these materials are processed for a broad diversity of applications in today's society. Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text. The text concludes with discussions of ceramics in biology and medicine, ceramics as gemstones and the role of ceramics in the interplay between industry and the environment. Extensively illustrated, the text also includes questions for the student and recommendations for additional reading. KEY FEATURES: Combines the treatment of bioceramics, furnaces, glass, optics, pores, gemstones, and point defects in a single text Provides abundant examples and illustrations relating theory to practical applications Suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science Written by established and successful teachers and authors with experience in both research and industry

Updated and improved, this revised edition of Michel Barsoum's classic text Fundamentals of Ceramics presents readers with an exceptionally clear and comprehensive introduction to ceramic science. Barsoum offers introductory coverage of ceramics, their structures, and properties, with a distinct emphasis on solid state physics and chemistry. Key equations are derived from first principles to ensure a thorough understanding of the concepts involved. The book divides naturally into two parts. Chapters 1 to 9 consider bonding in ceramics and their resultant physical structures, and the electrical, thermal, and other properties that are dependent on bonding type. The second part (Chapters 11 to 16) deals with those factors that are determined by microstructure, such as fracture and fatigue, and thermal, dielectric, magnetic, and optical properties. Linking the two sections is Chapter 10, which describes sintering, grain growth, and the development of microstructure. Fundamentals of Ceramics is ideally suited to senior undergraduate and graduate students of materials science and engineering and related subjects.

A Comprehensive and Self-Contained Treatment of the Theory and Practical Applications of Ceramic Materials When failure occurs in ceramic materials, it is often catastrophic, instantaneous, and total. Now in its Second Edition, this important book arms readers with a thorough and accurate understanding of the causes of these failures and how to design ceramics for failure avoidance. It systematically covers: Stress and strain Types of mechanical behavior Strength of defect-free solids Linear elastic fracture mechanics Measurements of elasticity, strength, and fracture toughness Subcritical crack propagation Toughening mechanisms in ceramics Effects of microstructure on toughness and strength Cyclic fatigue of ceramics Thermal stress and thermal shock in ceramics Fractography Dislocation and plastic deformation in ceramics Creep and superplasticity of ceramics Creep rupture at high temperatures and safe life design Hardness and wear And more While maintaining the first edition's reputation for being an indispensable professional resource, this new edition has been updated with sketches, explanations, figures, tables, summaries, and problem sets to make it more student-friendly as a textbook in undergraduate and graduate courses on the mechanical properties of ceramics.

Materials scientists continue to develop stronger, more versatile ceramics for advanced technological applications, such as electronic components, fuel cells, engines, sensors, catalysts, superconductors, and space shuttles. From the start of the fabrication process to the final fabricated microstructure, Ceramic Processing covers all aspects of modern processing for polycrystalline ceramics. Stemming from chapters in the author's bestselling text, Ceramic Processing and Sintering, this book gathers additional information selected from many sources and review articles in a single, well-researched resource. The author outlines the most commonly employed ceramic fabrication processes by the consolidation and sintering of powders. A systematic approach highlights the importance of each step as well as the

interconnection between the various steps in the overall fabrication route. The in-depth treatment of production methods includes powder, colloidal, and sol-gel processing as well as chemical synthesis of powders, forming, sintering, and microstructure control. The book covers powder preparation and characterization, organic additives in ceramic processing, mixing and packing of particles, drying, and debinding. It also describes recent technologies such as the synthesis of nanoscale powders and solid freeform fabrication. Ceramic Processing provides a thorough foundation and reference in the production of ceramic materials for advanced undergraduates and graduate students as well as professionals in corporate training or professional courses.

Most people would be surprised at how ceramics are used, from creating cellular phones, radio, television, and lasers to its role in medicine for cancer treatments and restoring hearing. The Magic of Ceramics introduces the nontechnical reader to the many exciting applications of ceramics, describing how ceramic material functions, while teaching key scientific concepts like atomic structure, color, and the electromagnetic spectrum. With many illustrations from corporations on the ways in which ceramics make advanced products possible, the Second Edition also addresses the newest areas in ceramics, such as nanotechnology.

Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, comprehensive text. Building on a foundation of crystal structures, phase equilibria, defects, and the mechanical properties of ceramic materials, students are shown how these materials are processed for a wide diversity of applications in today's society. Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text, and a chapter is devoted to ceramics as gemstones. This course-tested text now includes expanded chapters on the role of ceramics in industry and their impact on the environment as well as a chapter devoted to applications of ceramic materials in clean energy technologies. Also new are expanded sets of text-specific homework problems and other resources for instructors. The revised and updated Second Edition is further enhanced with color illustrations throughout the text.

This is the second edition of the classic book An Introduction to Bioceramics which provides a comprehensive overview of all types of ceramic and glass materials that are used in medicine and dentistry. The enormous growth of the field of bioceramics is due to the recognition by the medical and dental community of the importance of bioactive materials to stimulate repair and regeneration of tissues. This edition includes 21 new chapters that document the science and especially the clinical applications of the new generation of bioceramics in the field of tissue regeneration and repair. Important socioeconomic factors influencing the economics and availability of new medical treatments are covered with updates on regulatory procedures for new biomaterials, methods for technology transfer and ethical issues. The book contains 42 chapters that offer the only comprehensive treatment of the science, technology and clinical applications of all types of bioceramic materials used in medicine and dentistry. Each chapter is written by leaders in their specialized fields and is a thorough review of the subject matter, unlike many conference proceedings. All chapters have been edited to reflect the same writing style, making the book an easy read. The completeness of treatment of all types of bioceramics and their clinical applications makes the book unique in the field and invaluable to all readers.