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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.

Sintering of Ceramics provides the only comprehensive treatment of the theories and principles of sintering and their application to the production of advanced ceramics with the required target microstructure. Stemming from the author's bestselling text, Ceramic Processing and Sintering, this book includes additional material selected

Many of the properties critical to the engineering applications of ceramics are strongly dependent on their microstructure which, in turn, is dependent on the processing methods used to produce the ceramic material. Ceramic Processing, Second Edition provides a comprehensive treatment of the principles and practical methods used in producing ceramics with controlled microstructure. Covering the main steps in the production of ceramics from powders, the book also provides succinct coverage of other methods for fabricating ceramics, such as sol–gel processing, reaction bonding, chemical vapor deposition and polymer pyrolysis. While maintaining the objectives of the successful first edition, this new edition has been revised and updated to include recent developments and expanded to feature new chapters on additives used in ceramic processing; rheological properties of suspensions, slurries, and pastes; granulation, mixing, and packing of particles; and sintering theory and principles. Intended as a textbook for undergraduate and graduate courses in ceramic processing, the book also provides an indispensable resource for research and development engineers in industry who are involved in the production of ceramics or who would like to develop a background in the processing of ceramics.

Sintering is a method for manufacturing components from ceramic or metal powders by heating the powder until the particles adhere to form the component required. The resulting products are characterised by an enhanced density and strength, and are used in a wide range of industries. Sintering of advanced materials: fundamentals and processes reviews important developments in this technology and its applications Part one discusses the fundamentals of sintering with chapters on topics such as the thermodynamics of sintering, kinetics and mechanisms of densification, the kinetics of microstructural change and liquid phase sintering. Part two reviews advanced sintering processes including atmospheric sintering, vacuum sintering, microwave sintering, field/current assisted sintering and photonic sintering. Finally, Part three covers sintering of aluminium, titanium and their alloys, refractory metals, ultrahard materials, thin films, ultrafine and nanosized particles for advanced materials. With its distinguished editor and international team of contributors, Sintering of advanced materials: fundamentals and processes reviews the latest advances in sintering and is a standard reference for researchers and engineers involved in the processing of ceramics, powder metallurgy, net-shape manufacturing and those using advanced materials in such sectors as electronics, automotive and aerospace engineering. Explores the thermodynamics of sintering including sinter bonding and densification Chapters review a variety of sintering methods including atmosphere, vacuum, liquid phase and microwave sintering Discusses sintering of a variety of materials featuring refractory metals, super hard materials and functionally graded materials

This book gives a comprehensive account on the manufacturing techniques to synchronize the desired properties of both traditional and advanced ceramics. Offers exclusive and up to date information on industrial ceramic processing equipment and approaches and discusses actual industrial practices taking a product-oriented approach It should serve as a text to answer the processing of ceramics and achieve targeted product in industrial environment.

A two-volume reference set for all ceramicists, both in research and working in industry The only definitive reference covering the entire field of advanced ceramics from fundamental science and processing to application Contributions from over 50 leading researchers from around the world This new Handbook will be an essential resource for ceramicists. It includes contributions from leading researchers around the world, and includes sections on: Basic Science of Advanced Ceramic, Functional Ceramics (electro-ceramics and optoelectro-ceramics) and engineering ceramics. Contributions from over 50 leading researchers from around the world

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.

Sol-Gel processing methods, first used historically for decorative and constructional materials, were extensively developed in the last century for applications such as glasses, ceramics, catalysts, coatings, composites and fibres. Today they are reaching their full potential, enabling the preparation of new generations of advanced materials not easily accessible by other methods

yet using mild, low-energy conditions. The topic is therefore increasingly included in advanced undergraduate, MSc and PhD programmes in the areas of chemistry, physics and materials science. This concise introductory text, written at the advanced undergraduate/first-year postgraduate level, is also suitable as an introduction to the development, mechanisms, chemistry, characterisation methods and applications of the technique. It provides readers with an extensive yet concise grounding in the theory of each area of the subject and details the real and potential applications and the future prospects of sol-gel chemistry.

A comprehensive reference on the properties, selection, processing, and applications of the most widely used nonmetallic engineering materials. Section 1, General Information and Data, contains information applicable both to polymers and to ceramics and glasses. It includes an illustrated glossary, a collection of engineering tables and data, and a guide to materials selection. Sections 2 through 7 focus on polymeric materials--plastics, elastomers, polymer-matrix composites, adhesives, and sealants--with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook. Ceramics and glasses are covered in Sections 8 through 12, also with updated and expanded information. Annotation copyright by Book News, Inc., Portland, OR

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