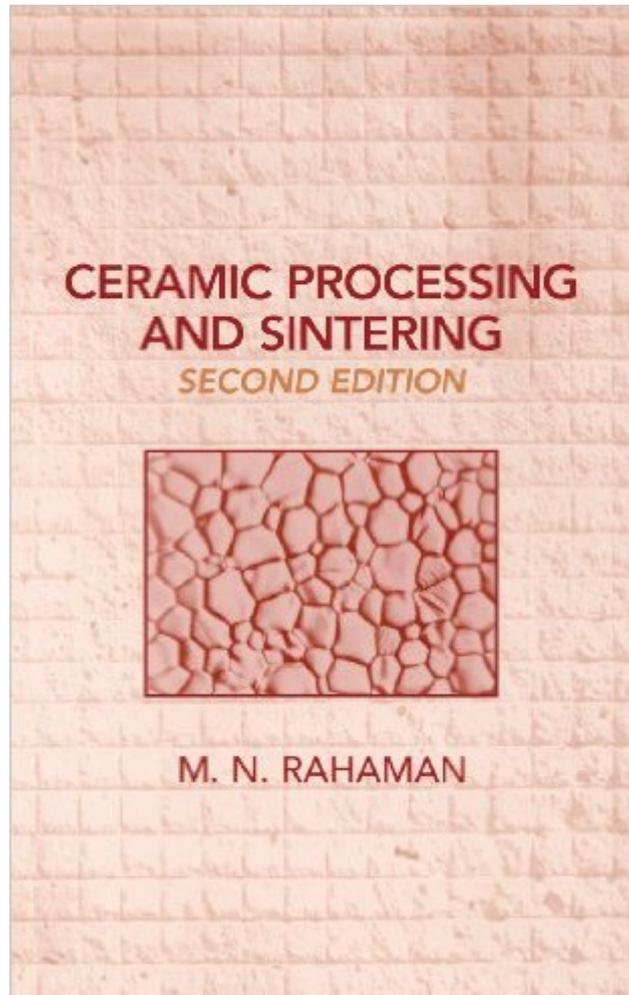


The book was found

# Ceramic Processing And Sintering (Materials Engineering)



## Synopsis

As the field's premiere source, this reference is extensively revised and expanded to collect hard-to-find applications, equations, derivations, and examples illustrating the latest developments in ceramic processing technology. This book is concerned primarily with the processing of polycrystalline ceramics and focuses on the widespread fabrication of ceramics by the firing of consolidated powders forms. A brief treatment of sol-gel processing is also included. Ceramic Processing and Sintering, Second Edition provides clear and intensive discussions on colloidal and sol-gel processing, sintering of ceramics, and kinetic processes in materials. From powder synthesis and consolidation to sintering and densification behavior, this latest edition emphasizes the impact of each processing procedure on ceramic properties. The second edition also contains new and extended discussions on colloid stability, polymer growth and gelation, additives in ceramic forming, diffusion and defect structure, normal and abnormal grain growth, microwave sintering, Rayleigh instability effects, and Ostwald ripening. Illustrating the interconnectedness between the various steps in the overall fabrication route, Ceramic Processing and Sintering, Second Edition approaches the fundamental issues of each process and show how they are applied to the practical fabrication of ceramics.

## Book Information

Series: Materials Engineering

Hardcover: 875 pages

Publisher: CRC Press; 2 edition (July 31, 2003)

Language: English

ISBN-10: 0824709888

ISBN-13: 978-0824709884

Product Dimensions: 6 x 1.9 x 9 inches

Shipping Weight: 2.9 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #910,195 in Books (See Top 100 in Books) #34 in [Books > Engineering & Transportation > Engineering > Chemical > Coatings, Ceramics & Glass](#) #70 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Extraction & Processing](#) #198 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles](#)

## Customer Reviews

This is DEFINITELY a textbook, not light reading, but it is one of the most complete resources for ceramics and has been useful in several of my classes in Materials Science and Engineering. The density of information is very high but the chapters are nicely segregated - callbacks are made to previous material, but you don't usually have to go look it up to understand the current topic of focus - even the last chapters stand well on their own to someone with a good grasp of the fundamentals.

I used this text in an undergraduate course on ceramic processing at Carnegie Mellon University. The author does an excellent job of describing the creation of ceramics from basic ore extraction and comminution to advanced forming, heat treatment, and post-processing. Rahaman assumes a basic knowledge of materials science, but he still provides detailed, easy-to-follow descriptions of the various refining processes. In addition, he thoroughly explains all the images and figures provided in the text, helping the reader to fully comprehend their significance. I would highly recommend this text to anyone seeking an understanding of the complex processes used to manufacture both basic and advanced ceramics.

I bought this book years ago when I started my job. It is well written and covers most of the key subjects of sintering. It suits someone with some background in the field.

it's the book I needed for my class. Took over a month to get in though. pushed the delivery date back two weeks on the week it was supposed to arrive. Other than shipping it was fine.

[Download to continue reading...](#)

Ceramic Processing and Sintering (Materials Engineering) Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering) Modern Ceramic Engineering: Properties, Processing, and Use in Design, Third Edition (Materials Engineering) HomeSkills: Ceramic Tile: How to Install Ceramic Tile for Your Floors, Walls, Backsplashes & Countertops Ceramic and Glass Materials: Structure, Properties and Processing Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Ceramic Materials: Science and Engineering Engineering Materials 2, Fourth Edition: An Introduction to Microstructures and Processing (International Series on Materials Science and Technology) Materials North American Edition w/Online Testing: Materials - North American Edition, Second Edition: engineering, science, processing and design Organic Additives and Ceramic Processing, Second Edition: With Applications in Powder Metallurgy, Ink, and Paint Materiales refractarios y ceramicos/ Refractory

and ceramic materials (Biblioteca De Quimicas) (Spanish Edition) Materials Processing: A Unified Approach to Processing of Metals, Ceramics and Polymers Digital Signal Processing with Examples in MATLAB®<sup>®</sup>, Second Edition (Electrical Engineering & Applied Signal Processing Series) Product Design for Manufacture and Assembly, Third Edition (Manufacturing Engineering and Materials Processing) Engineering Design: A Materials and Processing Approach Hot Rolling of Steel (Manufacturing Engineering and Materials Processing) Materials: engineering, science, processing and design; North American Edition Laser Processing of Engineering Materials: Principles, Procedure and Industrial Application Solidification Processing (Materials Science & Engineering) The Structure of Materials (Mit Series in Materials Science and Engineering)

[Dmca](#)