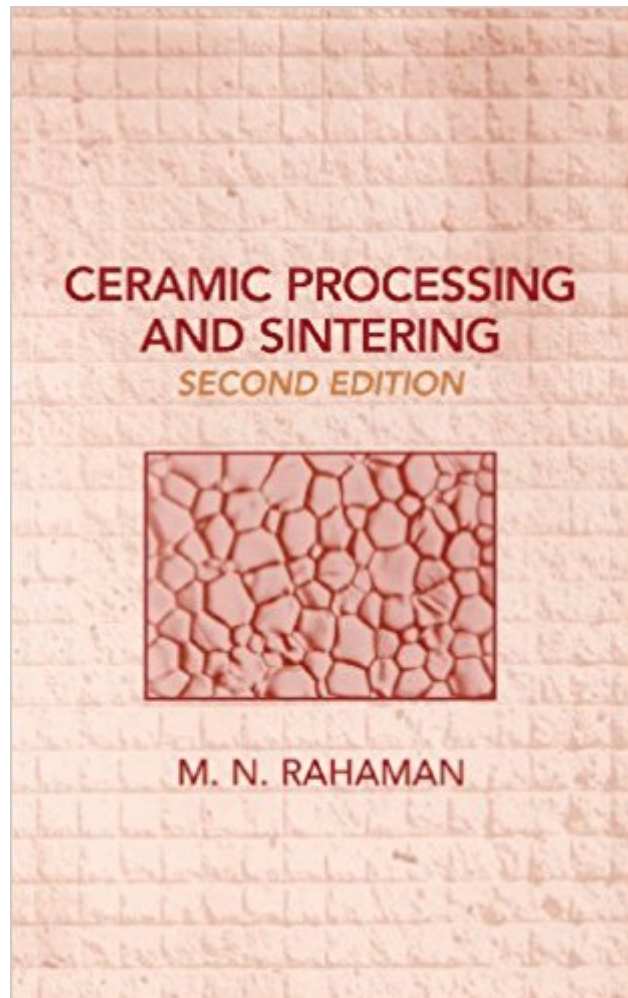




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Ceramic Processing And Sintering (Materials Engineering)



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

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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.

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