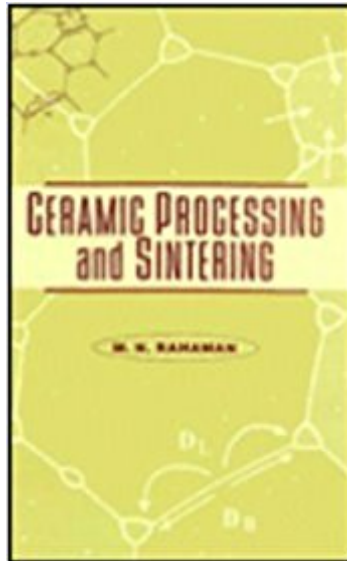




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Ceramic Processing And Sintering (Materials Engineering)



Synopsis

This work provides a through overview of all relevant issues concerning the processing and sintering of advanced ceramic materials. It discusses powder preparation and characterization; colloidal and sol-gel techniques; powder consolidation and forming; sintering theory and practice; and microstructure evolution. The importance of each step, and the critical interconnections among steps in the overall fabrication of ceramics, are delineated. College or university bookstores may order five or more copies at a special student price, which is available from Marcel Dekker, Inc, on request.

Book Information

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Customer Reviews

"...well researched...thorough and extensive ...a valuable addition...highly recommended." -- Glass Technology"
"...well researched...thorough and extensive. Its great benefit is that it summarises in a single text a lot of information which is otherwise only available in several more specific texts and review articles...a valuable addition...highly recommended." -- Glass Technology

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 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.

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.

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