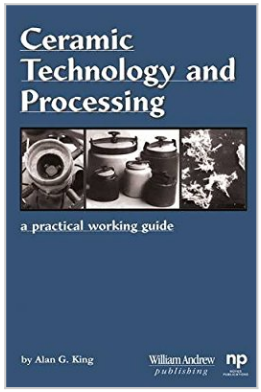

Ceramic Technology and Processing: A Practical Working Guide (Materials and Processing Technology)

By Alan G. King

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Perfect for the new technician or engineer entering the ceramics industry as well as for the ""old hand"" who needs an update on some aspect of ceramics processing, this resource provides practical laboratory-oriented answers to such typical processing problems as particle segregation, agglomeration, contamination, pressure gradients, adherence to tooling, and temperature gradients during drying and firing.

The author examines the difficulties of practical testing and processing in the ceramic laboratory, such as vast differences in scale and equipment, and shows how to evaluate results taking such variables into account. Once the laboratory work is satisfactorily completed, the rest of the book explores serious issues involved in transferring technology from the lab bench to the plant floor and then to the customer. The author gives advice on dealing with real-life problems such as allocating human and capital resources and overcoming customer wariness of being first to try new procedures and processes.

Each section contains practical, hands-on suggestions on performing and sometimes avoiding certain tasks, bringing to the reader key information that is at best sparsely available in the industry. As the author states, ""Laboratory skills are gained by hands-on experience. The intent of this book is to accelerate the process.""

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- Sales Rank: #5059530 in Books
- Published on: 2003-01-14
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.31" w x 5.98" l, 2.15 pounds
- Binding: Hardcover
- 533 pages

Editorial Review

From the Publisher
Sophisticated, experience-based introduction to the technology of ceramics that goes well beyond what is taught in schools--for ceramic engineers, technicians and plant personnel working in companies and labs worldwide. Also useful in related industries such as whitewares, glass, electronics, enamels, tile and brick as well as technical ceramics.

About the Author
Alan G. King is President of Ceramic Consulting Group, Inc., of Twinsburg, OH. He has spent much of his career working in research related to ceramics, including ceramic cutting tools and process research. He has worked at Ferro Corporation as Group Leader of Advanced Ciramics, at the Zirconium Corporation of America (Zircoa) as technical director, and at the Norton Company.

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