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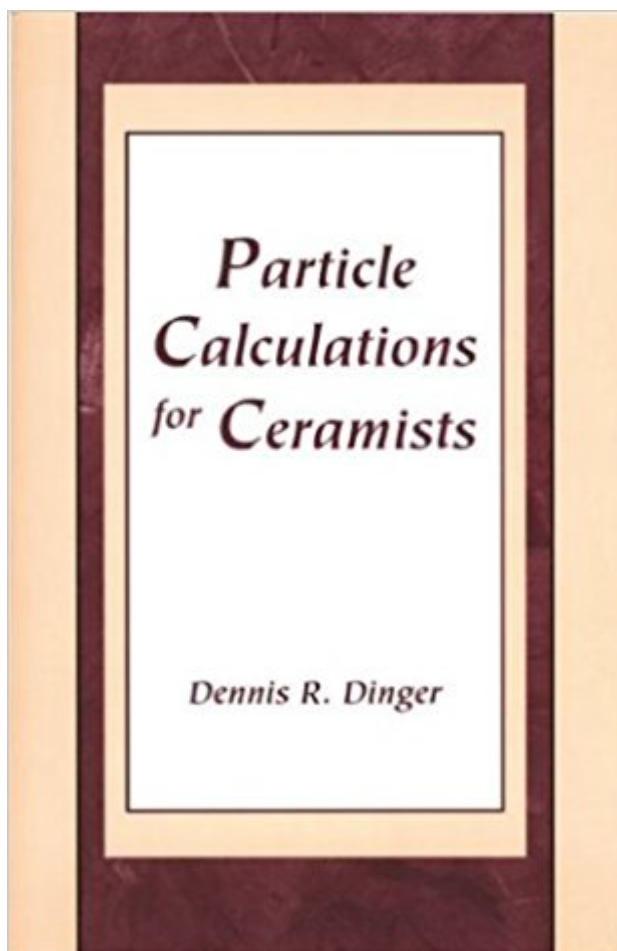# Particle Calculations For Ceramists

Particle Calculations for Ceramists

Dennis R. Dinger

Synopsis

This book was written to aid all ceramists to perform fundamental particle calculations. Discussions and sample calculations cover, for example, particle surface areas and volumes, slip densities and solids contents, particle size distributions, bulk volume and density, comparing and combining particle size distributions, and particle packing. The various particle size distribution presentation forms, i.e. linear, semi-log, and log-log charts, as well as histograms and cumulative distribution plots, are presented and discussed. Brief explanations accompanying each topic precede the many sample calculations. This book should be a handy reference for ceramic technicians, engineers, scientists, artists, and anyone else involved in the exciting field of fine particle processing and control.

Book Information

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Dennis Dinger is a private consultant in the field of ceramic processing and control, and Professor Emeritus of Ceramic and Materials Engineering at Clemson University. Over the past two decades, he has directed many applied ceramic engineering research projects studying the effects of powder characteristics on the behaviors of production slips and bodies. He is the author of many computer programs and models on particle packing phenomena, and a co-author, with the late Professor James E. Funk, of the ceramic processing textbook Predictive Process Control of Crowded Particulate Suspensions Applied to Ceramic Manufacturing.

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