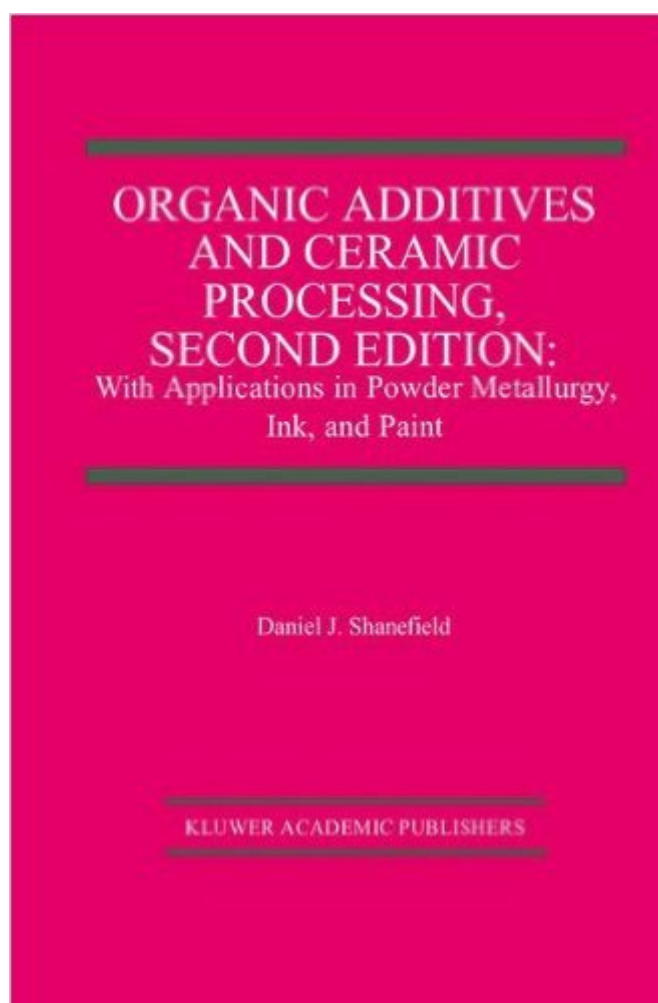


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Organic Additives And Ceramic Processing, Second Edition: With Applications In Powder Metallurgy, Ink, And Paint



Synopsis

This volume is intended to be used as a textbook for teaching purposes and also as a reference source for working engineers. Therefore, a wide range of subject matter must be covered, starting with fundamental explanations for students, and extending to advanced applications for development workers and factory problem-solvers. Such an ambitious task is being attempted only because of the present lack of resources which might otherwise fill the need. The author planned the book for use as the primary text in an undergraduate course in processing, which he teaches at Rutgers University. However, the book could also be used as a supplementary text for more general courses in related subjects. Powder metallurgy, printing inks, and paints involve many of the same organic additives as ceramic processing. These specialized fields of technology are usually covered somewhat by very general college courses in metallurgy, materials science, and chemical engineering, but there appears to be a need for more specific training in the area of the organic additives used in those fields. The formulators, for lack of confidence and better understanding, often rely on simple waxes or acrylates, when a higher level of technological knowledge could provide improved results. It is intended that this book will be useful as a supplementary source of information for those fields also, both as a self-teaching tool and for college coursework.

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Customer Reviews

Well...I am a little (!) biased at the get-go in writing this review since I know Dr. Shanefield in person

(in fact his office is next to mine!). This book aims at providing the reader with a sound background in ceramic processing, as well as the essential "working tools" needed in real life. It is written rather densely. You will find useful information in almost every single sentence of the book. The text is nothing but a reflection of the infamous DJ Shanefield trademark of competence that is recognized all over the world (spanning three successful decades of industrial research). The book addresses all the main aspects of ceramic processing (from powder characteristics to colloidal processing and sintering) and provides the reader with great insights into the underlying chemical phenomena from an operational point of view. What I particularly like about this book is its very concise summary of the underlying organic chemistry principles of binders. Consequently, the reader does not have to make recourse to organic chemistry books and extract the necessary background information for him/herself. This book, therefore, is a very valuable source in acquiring the threshold amount of information on organic chemistry for an array of applications in processing science. The book also contains many case studies (including laboratory experiments) at the end that are derived from the author's many years of experience in industry. Many footnotes are included in the book as well, which are very entertaining and educational. In my opinion, the book deserves special recognition since it blends "science" and real life together in a very effective and balanced manner, which some of us simply call Engineering!

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