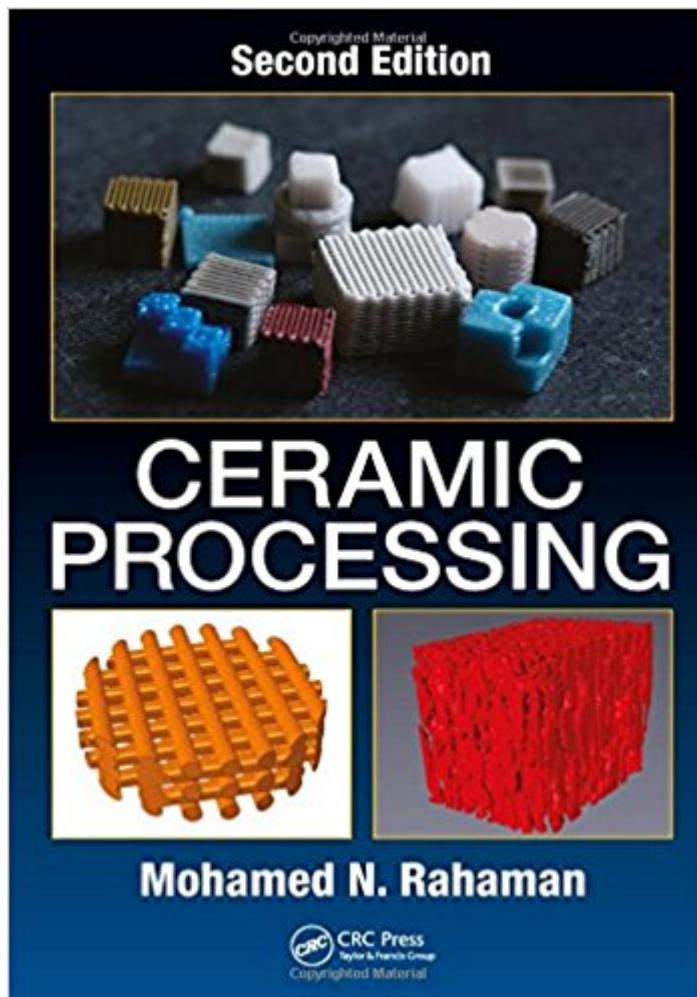


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Ceramic Processing, Second Edition



Synopsis

Many of the properties critical to the engineering applications of ceramics are strongly dependent on their microstructure which, in turn, is dependent on the processing methods used to produce the ceramic material. Ceramic Processing, Second Edition provides a comprehensive treatment of the principles and practical methods used in producing ceramics with controlled microstructure. Covering the main steps in the production of ceramics from powders, the book also provides succinct coverage of other methods for fabricating ceramics, such as sol-gel processing, reaction bonding, chemical vapor deposition and polymer pyrolysis. While maintaining the objectives of the successful first edition, this new edition has been revised and updated to include recent developments and expanded to feature new chapters on additives used in ceramic processing; rheological properties of suspensions, slurries, and pastes; granulation, mixing, and packing of particles; and sintering theory and principles. Intended as a textbook for undergraduate and graduate courses in ceramic processing, the book also provides an indispensable resource for research and development engineers in industry who are involved in the production of ceramics or who would like to develop a background in the processing of ceramics.

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