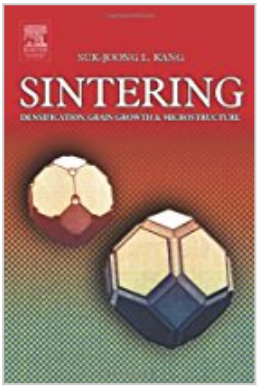

Sintering: Densification, Grain Growth and Microstructure

By Suk-Joong L. Kang

Sintering: Densification, Grain Growth and Microstructure By Suk-Joong L. Kang

Sintering is the process of forming materials and components from a powder under the action of thermal energy. It is a key materials science subject: most ceramic materials and many specialist metal powder products for use in key industries such as electronics, automotive and aerospace are formed this way. Written by one of the leading experts in the field, this book offers an unrivalled introduction to sintering and sintering processes for students of materials science and engineering, and practicing engineers in industry.

The book is unique in providing a complete grounding in the principles of sintering and equal coverage of the three key sintering processes: densification, grain growth and microstructure. Students and professional engineers alike will be attracted by the emphasis on developing a detailed understanding of the theory and practical processes of sintering, the balanced coverage of ceramic and metal sintering, and the accompanying examination questions with selected solutions.

- Delivering unrivalled depth of coverage on the basis of sintering, science, including thermodynamics and polycrystalline microstructure.
- Unique in its balanced coverage of the three key sintering elements - densification, grain growth and microstructure.
- A key reference for students and engineers in materials science and engineering, accompanied by examination questions and selected solutions.

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Editorial Review

From the Back Cover
Sintering is the process of forming materials and components from a powder under the action of thermal energy. It is an essential technique in the manufacture of ceramics and specialist metals. This book provides a complete grounding in the principles of sintering, microstructure and the processes of densification and grain growth.

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Allied to the study of material microstructure, sintering is an important topic for those studying materials processing and materials properties. As well as being central to many industrial operations, a detailed understanding of sintering is also required to cotnrol the properties of sintered materials. Comprehensive and accessible, Sintering makes the subject attractive to students and professional engineers by minimising presentation of experimental data while developing a detailed understanding of the basis and practical processes of sintering.

Users Review

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David Pell:

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