

<u>Sintering Densification Grain Growth And Microstructure</u>

Oliver Brand, Gary K. Fedder, Christofer Hierold, Jan G. Korvink, Osamu Tabata

Sintering Densification Grain Growth And Microstructure:

Sintering Suk-Joong L. Kang,2004-11-27 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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Sintering Ricardo Castro, Klaus van Benthem, 2012-09-13 Sintering process studies have re emerged strongly in the past decade due to extensive discussions about the stabilization of nanoparticles and nanostructures and the development of controlled nanograined bulk materials This book presents the state of art in experiments and theory of novel sintering processes traditional sintering and grain growth The scope ranges from powder metallurgy to ceramic and composites processing The challenges of conventional and novel sintering and grain growth in nanopowders and nanostructures are addressed being useful for students as well as professionals interested in sintering at the nanoscale Sintering of Advanced Materials Zhigang Zak Fang, 2010-09-27 Sintering is a method for manufacturing components from ceramic or metal powders by heating the powder until the particles adhere to form the component required The resulting products are characterised by an enhanced density and strength and are used in a wide range of industries Sintering of advanced materials fundamentals and processes reviews important developments in this technology and its applications Part one discusses the fundamentals of sintering with chapters on topics such as the thermodynamics of sintering kinetics and mechanisms of densification the kinetics of microstructural change and liquid phase sintering Part two reviews advanced sintering processes including atmospheric sintering vacuum sintering microwave sintering field current assisted sintering and photonic sintering Finally Part three covers sintering of aluminium titanium and their alloys refractory metals ultrahard materials thin films ultrafine and nanosized particles for advanced materials With its distinguished editor and international team of contributors Sintering of advanced materials fundamentals and processes reviews the latest advances in sintering and is a standard reference for researchers and engineers involved in the processing of ceramics powder metallurgy net

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