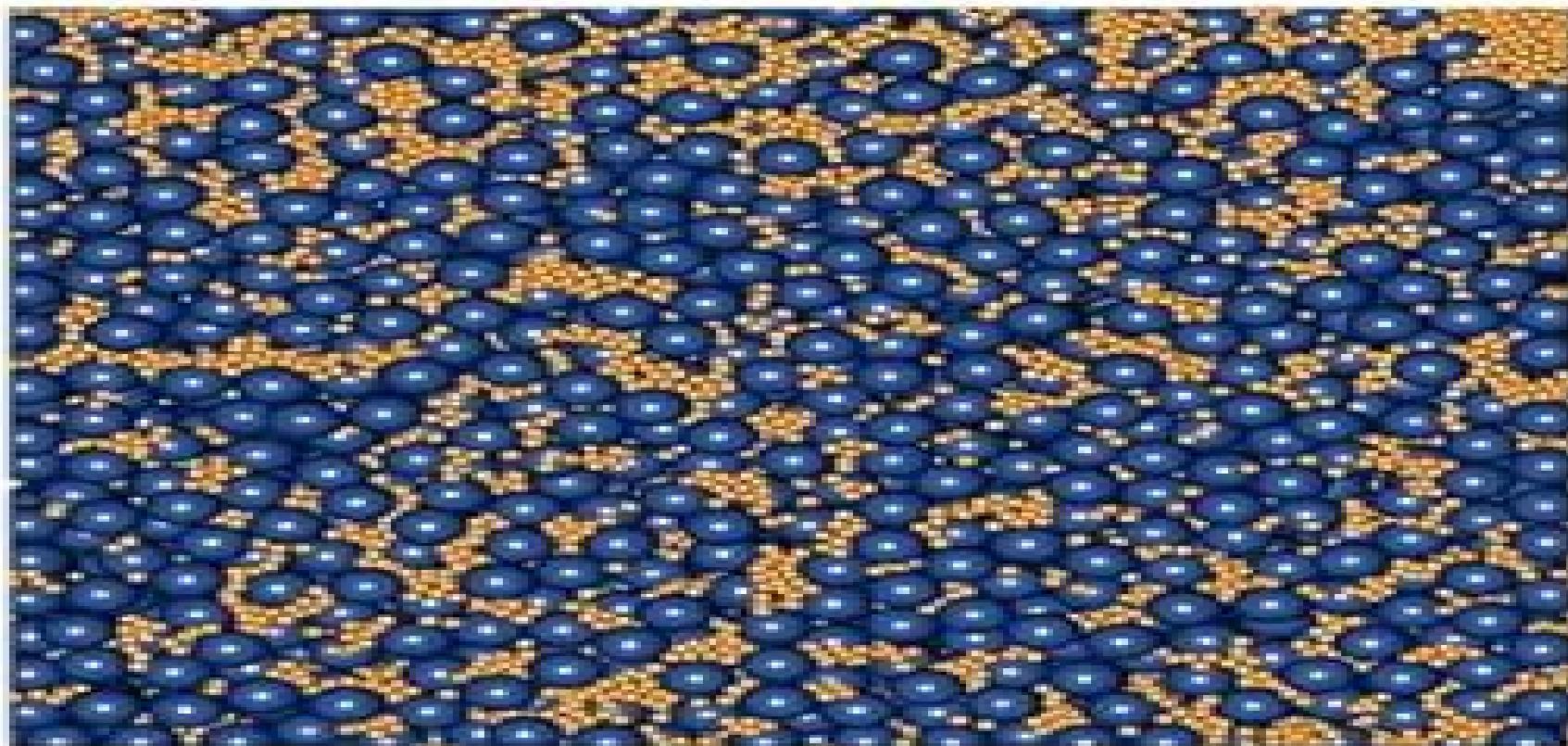


Edited by Chiharu Yui Wuu and Wei Ge

Particulate Materials

Synthesis, Characterisation, Processing
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Particulate Materials Synthesis Characterisation Processing And Modelling Special Publications

Tao Wei

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Beam-Solid Interactions for Materials Synthesis and Characterization: Volume 354 Dale C. Jacobson,1995-11-20 Proceedings of the title symposium held at the 1994 MRS Fall Meeting in Boston 28 November 2 December 1994 Selected papers that were presented in both oral and poster sessions are divided into six topical groups ion beam processing defects and diffusion ion beam modification of polymers analysis and characterization sputtering and laser assisted and induced processes Annotation copyright by Book News Inc Portland OR [Publications of the National Institute of Standards and Technology ... Catalog](#) National Institute of Standards and Technology (U.S.),1982 [Publications of the National Bureau of Standards ... Catalog](#) United States. National Bureau of Standards,1981 [Publications of the National Bureau of Standards](#) United States. National Bureau of Standards,1981 [Current Awareness in Particle Technology](#) ,1996

Production, Handling and Characterization of Particulate Materials Henk G. Merkus,Gabriel M.H. Meesters,2015-11-26 This edited volume presents most techniques and methods that have been developed by material scientists chemists chemical engineers and physicists for the commercial production of particulate materials ranging from the millimeter to the nanometer scale The scope includes the physical and chemical background experimental optimization of

equipment and procedures as well as an outlook on future methods. The book addresses issues of industrial importance such as specifications, control parameters, control strategy, process models, energy consumption, and discusses the various techniques in relation to potential applications. In addition to the production processes, all major unit operations and characterization methods are described in this book. It differs from other books which are devoted to a single technique or a single material. Contributors to this book are acknowledged experts in their field. The aim of the book is to facilitate comparison of the different unit operations leading to optimum equipment choices for the production, handling and storage of particulate materials. An advantage of this approach is that unit operations that are common in one field of application are made accessible to other fields. The overall focus is on industrial application and the book includes some concrete examples. The book is an essential resource for students or researchers who work in collaboration with manufacturing industries or who are planning to make the switch from academia to industry.

The Chemical Engineer, 2000 *International Journal of Powder Metallurgy*, 2000 *Directory of Postgraduate Studies 2002* Hobsons Publishing, PLC, 2001 **Directory of Published Proceedings**, 1997

Metallic Biomaterials Processing and Medical Device Manufacturing Cuie Wen, 2020-08-20 Metallic Biomaterials Processing and Medical Device Manufacturing details the principles and practices of the technologies used in biomaterials processing and medical device manufacturing. The book reviews the main categories of metallic biomaterials and the essential considerations in design and manufacturing of medical devices. It bridges the gap between the designing of biomaterials and manufacturing of medical devices including requirements and standards. Main themes of the book include manufacturing, coatings and surface modifications of medical devices, metallic biomaterials and their mechanical behaviour, degradation testing and characterization, and quality controls, standards and FDA regulations of medical devices. The leading experts in the field discuss the requirements, challenges, recent progresses and future research directions in the processing of materials and manufacturing of medical devices. Metallic Biomaterials Processing and Medical Device Manufacturing is ideal for those working in the disciplines of materials science, manufacturing, biomedical engineering and mechanical engineering. Reviews key topics of biomaterials processing for medical device applications including metallic biomaterials and their mechanical behavior, degradation testing and characterization. Bridges the gap between biomaterials design and medical device manufacturing. Discusses the quality controls, standards and FDA requirements for biomaterials and medical devices.

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