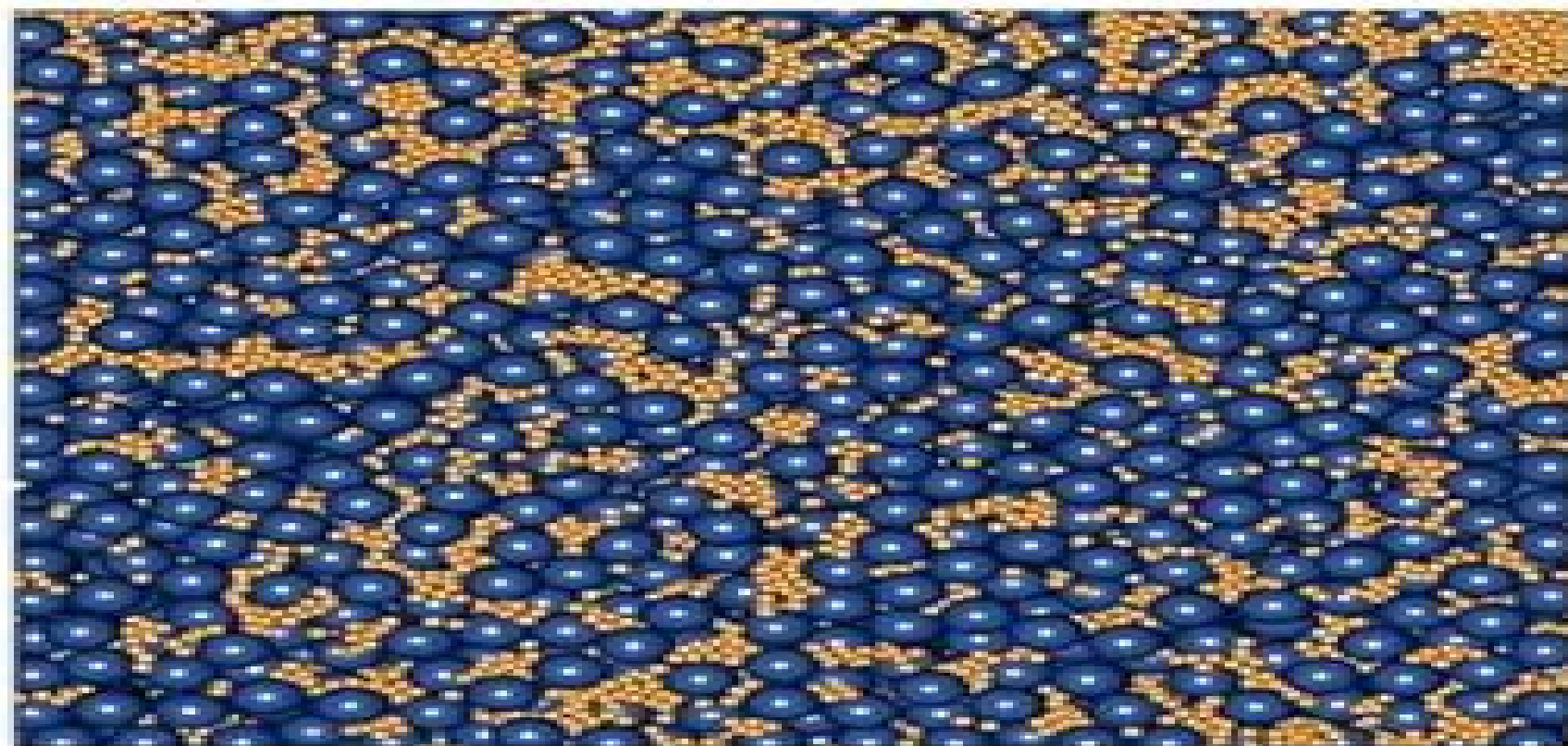


Edited by Chuan-Yu Wu and Wei Ge

Particulate Materials

Synthesis, Characterisation, Processing
and Modelling



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Particulate Materials Synthesis Characterisation Processing And Modelling Special Publications

Tao Wei



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Particulate Materials Chuan-Yu Wu, Wei Ge, 2012 Naturally occurring or manufactured through chemical and or physical processes particulate materials are substances consisting of individual particles which have significance to the global economy society and environments Due to the diversity and intrinsic nature manufacturing handling and processing of particulate materials still face numerous challenges Aimed at addressing these challenges this book contains a selection of papers discussing the state of the art research in particulate materials science that were presented at the UK China Particle Technology Forum III held at Birmingham UK in 2011 Classified into four distinct topics namely synthesis characterisation processing and modelling the chapters showcase the advances in these areas including a range of advanced synthesis methods for example spray pyrolysis supercritical fluid synthesis assisted with ultrasound continuous synthesis using supercritical water hydrothermal synthesis of nano particulate materials and jet milling For characterisation various methods for characterising particulate materials at both particle and system levels are introduced and how these properties affect the behaviour of particulate materials in various processes such as inhalation filling and consolidation are discussed In the processing section recent advances such as capsule filling micro dosing dry granulation roll compaction milling and more are presented The last section concerns mathematical and numerical modelling in particulate materials for which the book includes both analytical methods and advanced numerical methods such as discrete element methods DEM computational fluid dynamics CFD lattice Boltzmann methods LBM coupled DEM CFD and DEM LBM and their applications *Particulate Materials* is aimed at research communities dealing with these diverse materials and scientists and engineers in powder handling industries such as pharmaceutical food fine chemical and detergents NBS Special Publication ,1968

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 books addresses issues of industrial importance such as specifications control parameter s 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 filed 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 *International Aerospace Abstracts* ,1996 **Journal of the Air & Waste Management Association** ,2008 **New Research Centers** ,1994 *Ceramic Abstracts* ,1998 **EPA Publications Bibliography** ,1984 **Dissertation Abstracts International** ,2008 *U.S. National Report to International Union of Geodesy and Geophysics* ,1995

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