

PARTICLE TECHNOLOGY SERIES

THE SCIENCE AND ENGINEERING OF GRANULATION PROCESSES

Jim Litster and Bryan Ennis

Springer-Science+Business Media, B.V.

Science And Engineering Of Granulation Processes

**Zhengbing Hu, Sergey Petoukhov, Felix
Yanovsky, Matthew He**

Science And Engineering Of Granulation Processes:

The Science and Engineering of Granulation Processes Jim Litster, Bryan Ennis, 2013-06-29 This book had its origins in a meeting between two relatively young particle technology researchers on Rehobeth Beach in Delaware in 1992 near the holiday house of Reg Davies then Director of the Particle Science and Technology Research Center in Dupont As we played in the sand we shared an excitement for developments in particle technology especially particle characterization that would lead operations such as granulation to be placed on a sound scientific and engineering footing The immediate outcome from this interaction was the development of new industry short courses in granulation and related topics which we taught together both in Australia and North America This book follows closely the structure and approaches developed in these courses particularly the emphasis on particle design in granulation where the impact of both formulation properties and process variables on product attributes needs to be understood and quantified The book has been a long time in the making We have been actively preparing the book for at least five years Although the chapters have relatively good bibliographies this book is not a review of the field Rather it is an attempt by the authors to present a comprehensive engineering approach to granulator design scale up and operation It is exciting for us to see the explosion of research interest around the world in this area in the last five to seven years Some of the most recent work will have to find its way into the second edition

Granulation Agba D. Salman, Michael Hounslow, Jonathan P.K. Seville, 2006-11-24 Granulation provides a complete and comprehensive introduction on the state of the art of granulation and how it can be applied both in an academic context and from an industrial perspective Coupling science and engineering practices it covers differing length scales from the sub granule level through behaviour through single granules to bulk granule behaviour and equipment design With special focus on a wide range of industrially relevant areas from fertilizer production through to pharmaceuticals Experimental data is complemented by mathematical modelling in this emerging field allowing for a greater understanding of the basis of particle products and this important industry sector Four themes run through the book 1 The Macro Scale processing for Granulation including up to date descriptions of the methods used for granulation and how they come about and how to monitor on line these changes 2 The Applications of granulation from an industrial perspective with current descriptive roles and how they are undertaken with relevance to industry and effective properties 3 Mechanistic descriptions of granulation and the different rate processes occurring within the granulator This includes methods of modelling the process using Population Balance Equations and Multi level Computational Fluid Dynamics Models 4 The Micro Scale Granules and Smaller looking at single granules and their interactions and modelling while also considering the structure of granules and their constituent liquid bridges Covers a wide range of subjects and industrial applications Provides an understanding of current issues for industrial and academic environments Allows the reader an understanding of the science behind engineered granulation processes

Granularity in Materials Science George Kyzas, Athanasios C. Mitropoulos, 2018-10-24 Granular materials are a

special topic of recent research and are a milestone of science and technology These materials are very simple they are large conglomerations of discrete macroscopic particles Granular materials have a broad area of development which is growing rapidly day by day Their impact on commercial applications and academia and education is huge The basic points of this book are the important applications and properties of granular materials For example special mention is made of rheological points shapes and civil engineering aspects

Encyclopedia of Information Science and Technology, Fifth Edition

Khosrow-Pour D.B.A., Mehdi,2020-07-24 The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries Techniques such as data analysis cloud computing machine learning and others have altered the traditional processes of various disciplines including healthcare economics transportation and politics Information technology in today s world is beginning to uncover opportunities for experts in these fields that they are not yet aware of The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion safety and awareness Considering the level of diverse uses and practices throughout the globe the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting edge concepts and methodologies to the research community The Encyclopedia of Information Science and Technology Fifth Edition is a three volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science Highlighting a wide range of topics such as natural language processing decision support systems and electronic government this book offers strategies for implementing smart devices and analytics into various professional disciplines The techniques discussed in this publication are ideal for IT professionals developers computer scientists practitioners managers policymakers engineers data analysts and programmers seeking to understand the latest developments within this field and who are looking to apply new tools and policies in their practice Additionally academicians researchers and students in fields that include but are not limited to software engineering cybersecurity information technology media and communications urban planning computer science healthcare economics environmental science data management and political science will benefit from the extensive knowledge compiled within this publication

Granulation and granulation processes Jiliang Xia,Elli Nurminen,2006

Continuous Pharmaceutical Processing and Process Analytical Technology Ajit S. Narang,Atul Dubey,2023-03-01 Continuous manufacturing of pharmaceuticals including aspects of modern process development is highlighted in this book with both the why and the how emphasizing process modeling and process analytical technologies Presenting specific case studies and drawing upon extensive experience from industry and academic opinion leaders this book focuses on the practical aspects of continuous

manufacturing It gives the readers the strategic perspective and technical depth needed to adopt and implement these technologies where appropriate in order to gain the competitive edge in speed agility and reliability Features Discusses scientific solutions and process analytical technology to enable continuous manufacturing in the development of new drugs Includes short stories about how some companies have adopted CM and what their drivers were and what benefits were realized Addresses economic and practical considerations unlike many other technical books Emphasizes the practical aspects to give the reader the strategic imperative and technological depth to adopt and implement these technologies Highlights the why and the how focusing on the need analysis and process modeling and process analytical technologies

Advances in Computer Science for Engineering and Manufacturing Zhengbing Hu, Sergey Petoukhov, Felix Yanovsky, Matthew He, 2022-04-14 The book's general scope covers the latest advances in the development of artificial intelligence systems and their applications in engineering and manufacturing The book comprises refereed papers presented at the International Symposium on Engineering and Manufacturing ISEM2021 held in Kyiv Ukraine on December 24-26 2021 Given the rapid development of artificial intelligence systems the book emphasizes the need for the intensification of training of a growing number of relevant specialists in particular in engineering and manufacturing to increase the effectiveness of the creation and diagnosis of appropriate technical solutions In digital artificial intelligence systems scientists endeavor to reproduce the innate intellectual abilities of humans and other organisms In depth studies of biological and self-organizing systems can provide new approaches to create more and more effective artificial intelligence methods The topics of the included papers concern thematic materials in the following spheres mathematics and computer algorithms analysis of some technical solutions technological The book is a compilation of state-of-the-art papers in the field covering a comprehensive range of subjects that are relevant to business managers and engineering professionals alike The breadth and depth of these proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students interested in artificial intelligence systems and their growing applications Specialists students and other groups of people who want to know how artificial intelligence systems can be used in the future will be the target audience for this book

Advances in Computer Science for Engineering and Education IV
Zhengbing Hu, Sergey Petoukhov, Ivan Dychka, Matthew He, 2021-07-21 This book comprises high quality refereed research papers presented at the Fourth International Conference on Computer Science Engineering and Education Applications ICCSEEA2021 held in Kyiv Ukraine on January 23-24 2021 organized jointly by the National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute National Aviation University and the International Research Association of Modern Education and Computer Science The topics discussed in the book include state-of-the-art papers in computer science artificial intelligence engineering techniques genetic coding systems deep learning with its medical applications and knowledge representation with its applications in education It is an excellent source of references for researchers graduate

students engineers management practitioners and undergraduate students interested in computer science and their applications in engineering and education *Advances in Environmental Science and Engineering* Reza Iranpour, Ji Zhao, Ai Jie Wang, Feng Lin Yang, Xin Yong Li, 2012-05-14 Selected peer reviewed papers from the 2012 International Conference on Energy and Environmental Protection ICEEP 2012 June 23 24 2012 Hohhot China *Engineering Abstracts from the Current Periodical Literature of Engineering and Applied Science, Published Outside the United Kingdom* Institution of Civil Engineers (Great Britain), 1923 **22nd Brazilian Conference on Materials Science and Engineering** Clodomiro Alves Junior, 2018-09-14 22nd CBECIMAT Selected peer reviewed papers from the 22nd Brazilian Conference on Materials Science and Engineering CBECIMAT November 6 10 2016 Natal Brazil **Continuous Manufacturing of Pharmaceuticals** Peter Kleinebudde, Johannes Khinast, Jukka Rantanen, 2017-07-14 A comprehensive look at existing technologies and processes for continuous manufacturing of pharmaceuticals As rising costs outpace new drug development the pharmaceutical industry has come under intense pressure to improve the efficiency of its manufacturing processes Continuous process manufacturing provides a proven solution Among its many benefits are minimized waste energy consumption and raw material use the accelerated introduction of new drugs the use of smaller production facilities with lower building and capital costs the ability to monitor drug quality on a continuous basis and enhanced process reliability and flexibility Continuous Manufacturing of Pharmaceuticals prepares professionals to take advantage of that exciting new approach to improving drug manufacturing efficiency This book covers key aspects of the continuous manufacturing of pharmaceuticals The first part provides an overview of key chemical engineering principles and the current regulatory environment The second covers existing technologies for manufacturing both small molecule based products and protein peptide products The following section is devoted to process analytical tools for continuously operating manufacturing environments The final two sections treat the integration of several individual parts of processing into fully operating continuous process systems and summarize state of art approaches for innovative new manufacturing principles Brings together the essential know how for anyone working in drug manufacturing as well as chemical food and pharmaceutical scientists working on continuous processing Covers chemical engineering principles regulatory aspects primary and secondary manufacturing process analytical technology and quality by design Contains contributions from researchers in leading pharmaceutical companies the FDA and academic institutions Offers an extremely well informed look at the most promising future approaches to continuous manufacturing of innovative pharmaceutical products Timely comprehensive and authoritative Continuous Manufacturing of Pharmaceuticals is an important professional resource for researchers in industry and academe working in the fields of pharmaceuticals development and manufacturing **Dynamic Process Modeling**, 2013-10-02 Inspired by the leading authority in the field the Centre for Process Systems Engineering at Imperial College London this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the chemical energy molecular

biomedical and other areas It spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control As such this will appeal to a broad readership since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge The ultimate reference work for years to come [PERRY'S CHEMICAL ENGINEER'S HANDBOOK 8/E SECTION 21 SOLID-SOLID OPER&PROC \(POD\)](#) Don W. Green,2007-10-26 Now in its eighth edition Perry s Chemical Engineers Handbook offers unrivaled up to date coverage of all aspects of chemical engineering For the first time individual sections are available for purchase Now you can receive only the content you need for a fraction of the price of the entire volume Streamline your research pinpoint specialized information and save money by ordering single sections of this definitive chemical engineering reference today First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemical Engineers Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories *Materials Science, Mechanical Structures and Engineering* Salmah Husseinsyah,2014-10-20 Selected peer reviewed papers from the 2014 2nd International Conference on Mechanical Structures and Smart Materials 2nd ICMSSM 2014 August 16 17 2014 Kuala Lumpur Malaysia [Perry's Chemical Engineers' Handbook, Eighth Edition](#) Don W. Green,Robert H. Perry,2007-11-13 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry s Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry s Chemcial Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer

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Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics

Biochemical and Biological Engineering Science Norman Blakebrough,1967 **Encyclopedia of Materials Science and Engineering** ,1990 **Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines** Azad, Abul K.M.,Auer, Michael E.,Harward, V. Judson,2011-11-30 This book presents current developments in the multidisciplinary creation of Internet accessible remote laboratories offering perspectives on teaching with online laboratories pedagogical design system architectures for remote laboratories future trends and policy issues in the use of remote laboratories Provided by publisher **The British National Bibliography** Arthur James Wells,2004

The Enigmatic Realm of **Science And Engineering Of Granulation Processes**: Unleashing the Language is Inner Magic

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