

PARTICLE TECHNOLOGY SERIES

THE SCIENCE AND ENGINEERING OF GRANULATION PROCESSES

Jim Litster and Bryan Ennis

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Science And Engineering Of Granulation Processes

**Dr. Sowjanya Gurugubelli, Mrs.
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Prakash Nathaniel Kumar Sarella, Mrs.
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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

Dynamic Flowsheet Simulation of Solids Processes Stefan Heinrich, 2020-06-20 This book presents the latest advances in flowsheet simulation of solids processes focusing on the dynamic behaviour of systems with interconnected solids processing units but also covering stationary simulation The book includes the modelling of solids processing units for example for comminution sifting and particle formulation and also for reaction systems Furthermore it examines new approaches for the description of solids and their property distributions and for the mathematical treatment of flowsheets with multivariate population balances

[Continuous Manufacturing of Pharmaceuticals](#) Peter Kleinebudde, Johannes Khinast, Jukka Rantanen, 2024-10-28 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

Predictive Modeling of Pharmaceutical Unit Operations Preetanshu Pandey,Rahul Bharadwaj,2016-09-26 The use of modeling and simulation tools is rapidly gaining prominence in the pharmaceutical industry covering a wide range of applications This book focuses on modeling and simulation tools as they pertain to drug product manufacturing processes although similar principles and tools may apply to many other areas Modeling tools can improve fundamental process understanding and provide valuable insights into the manufacturing processes which can result in significant process improvements and cost savings With FDA mandating the use of Quality by Design QbD principles during manufacturing reliable modeling techniques can help to alleviate the costs associated with such efforts and be used to create in silico formulation and process design space This book is geared toward detailing modeling techniques that are utilized for the various unit operations during drug product manufacturing By way of examples that include case studies various modeling principles are explained for the nonexpert end users A discussion on the role of modeling in quality risk management for manufacturing and application of modeling for continuous manufacturing and biologics is also included Explains the commonly used modeling and simulation tools Details the modeling of various unit operations commonly utilized in solid dosage drug product manufacturing Practical examples of the application of modeling tools through case studies Discussion of modeling techniques used for a risk based approach to regulatory filings Explores the usage of modeling in upcoming areas such as continuous manufacturing and biologics manufacturing

Bullet points

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

Pharmaceutical Blending and Mixing P. J. Cullen,Rodolfo J. Romañach,Nicolas Abatzoglou,Chris D. Rielly,2015-05-11 Written in four parts this book provides a dedicated and in depth reference for blending within the pharmaceutical manufacturing industry It links the science of blending with regulatory requirements associated with pharmaceutical manufacture The contributors are a combination of leading academic and industrial experts who provide an informed and industrially relevant perspective of the topic This is an essential book for the pharmaceutical manufacturing industry and related academic researchers in pharmaceutical science and chemical and mechanical engineering

Process Technology André B. de Haan,Johan T. Padding,2022-03-07 The book provides a general overview about process technology It focuses on the structure and development of production processes main technological operations and some important aspects of process economics For the technological operations the authors emphasize operating principles reasons for application and available industrial equipment

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

Design and Processing of Particulate Products Jim Litster,2016-10-20 With this unique and comprehensive text readers will gain the quantitative tools needed to engineer the particulate processes and products that are ubiquitous in modern life Covering a series of particle and particulate delivery form design processes with emphasis on design and operation to control particle attributes and supported by many worked examples it is essential reading for students and practitioners Topics covered include a range of particle design processes such as crystallization and precipitation granulation grinding aerosol processes and spray drying as well as forms of delivery such as granules tablets dry powders and aerosols Readers will learn from real world examples how the primary particle properties and the structure and properties of the delivery form can lead to high performance products ranging from pharmaceuticals consumer goods and foods to specialty chemicals paints

agricultural chemicals and minerals *A Text Book of Pharmaceutics for I Year Diploma in Pharmacy* Dr. Sowjanya Gurugubelli, Mrs. Jhansipriya Marabathuni V, Mr. Prakash Nathaniel Kumar Sarella, Mrs. Vinny Therissa Mangam, Mr. Shaikh Samir Karim Karim, Mrs. Chollangi Bharghavi, Mrs. Prathyusha Vuddanda, Dr. Bala Venkata Sivaram Nallamolu, Mrs. Vijayalakshmi M K, Mr. Anilkumar Vadaga, 2024-10-15

A Textbook of Pharmaceutics for I Year Diploma in Pharmacy is a comprehensive guide designed to provide students with a strong foundation in pharmaceutical sciences. This book covers a wide range of topics from the historical background of pharmacy to modern manufacturing techniques and novel drug delivery systems. Each chapter includes learning objectives, multiple choice questions, quick summaries, and important questions to reinforce key concepts. With its focus on both theoretical knowledge and practical applications, this textbook is an essential resource for aspiring pharmacists. It offers a balanced approach to understanding the principles of pharmaceutics, quality control, and the latest advancements in the field, preparing students for successful careers in pharmacy.

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