

Pharmaceutical Extrusion Technology



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Pharmaceutical Extrusion Technology

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Pharmaceutical Extrusion Technology Isaac Ghebre-Selassie, Charles Martin, 2003-05-14 Pharmaceutical Extrusion Technology is the only resource to provide in depth descriptions and analyses of the key parameters of extruders and extrusion processes The book highlights the applicability of melt extrusion in pharmaceutical drug development and product manufacturing including controlled release dissolution rate and bioavailability enhancement and granulation technology It brings together the technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements and details extruder hardware and controls process definition and troubleshooting of single and twin screw extrusion processes and more

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forms Pharmaceutical Extrusion Technology Second Edition reflects how this has spawned numerous research activities in addition to hardware and process advancements It offers new authors expanded chapters and contains all the extrusion related technical information necessary for the development manufacturing and marketing of pharmaceutical dosage forms

Melt Extrusion Michael A. Repka, Nigel Langley, James DiNunzio, 2013-10-11 This volume provides readers with the basic principles and fundamentals of extrusion technology and a detailed description of the practical applications of a variety of extrusion processes including various pharma grade extruders In addition the downstream production of films pellets and tablets for example for oral and other delivery routes are presented and discussed utilizing melt extrusion This book is the first of its kind that discusses extensively the well developed science of extrusion technology as applied to pharmaceutical drug product development and manufacturing By covering a wide range of relevant topics the text brings together all technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements As extrusion technology continues to be refined further usage of extruder systems and the array of applications will continue to expand but the core technologies will remain the same

Hot-Melt Extrusion Dennis Douroumis, 2012-06-25 Hot melt extrusion HME melting a substance and forcing it through an orifice under controlled conditions to form a new material is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems for example granules and sustained release tablets Hot Melt Extrusion Pharmaceutical Applications covers the main instrumentation operation principles and theoretical background of HME It then focuses on HME drug delivery systems dosage forms and clinical studies including pharmacokinetics and bioavailability of HME products Finally the book includes some recent and novel HME applications scale up considerations and regulatory issues Topics covered include principles and the design of single screw extrusion twin screw extrusion techniques and practices in the laboratory and on production scale HME developments for the pharmaceutical industry solubility parameters for prediction of drug polymer miscibility in HME formulations the influence of plasticizers in HME applications of polymethacrylate polymers in HME HME of ethylcellulose hypromellose and polyethylene oxide bioadhesion properties of polymeric films produced by HME taste masking using HME clinical studies bioavailability and pharmacokinetics of HME products injection moulding and HME processing for pharmaceutical materials laminar dispersive distributive mixing with dissolution and applications to HME technological considerations related to scale up of HME processes devices and implant systems by HME an FDA perspective on HME product and process understanding improved process understanding and control of an HME process with near infrared spectroscopy Hot Melt Extrusion Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery pharmaceutical engineering and processing and polymers and materials science This is the first book from our brand new series Advances in Pharmaceutical Technology Find out more about the

series here **Handbook of Pharmaceutical Granulation Technology** Dilip M. Parikh, 2016-04-19 The Third Edition presents all pharmaceutical industry personnel and those in academia with critical updates on the recent advances in granulation technology and changes in FDA regulatory guidelines Addressing precisely how these recent innovations and revisions affect unit operation of particle generation and granulation this text assists the re *Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications* Vijay Kumar Thakur, Manju Kumari Thakur, 2015-08-04 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 part set of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers

Encyclopedia of Pharmaceutical Technology James Swarbrick, 2013-07-01 Presenting authoritative and engaging articles on all aspects of drug development dosage manufacturing and regulation this Third Edition enables the pharmaceutical specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field A dependable reference tool and constant companion for years to com **Chemical Engineering in the Pharmaceutical Industry** Mary T. am Ende, David J. am Ende, 2019-04-09 A guide to the important chemical engineering concepts for the development of new drugs revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products The authors review basic analytics for quantitation of drug product quality attributes such as potency purity content uniformity and dissolution that are addressed with consideration of the applied statistics process analytical technology and process control The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API s and 2 Drug Product Design Development and Modeling The contributors explore technology transfer and scale up of batch processes that are exemplified experimentally and computationally Written for engineers working in the field the book examines in silico process modeling tools that streamline experimental screening approaches In addition the authors discuss the emerging field of continuous drug product manufacturing This revised second edition Contains 21 new or

revised chapters including chapters on quality by design computational approaches for drug product modeling process design with PAT and process control engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design and process development and scale up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers chemical engineers undergraduate and graduation students and professionals in the field of pharmaceutical sciences and manufacturing

Chemical Engineering in the Pharmaceutical Industry Second Edition contains information designed to be of use from the engineer's perspective and spans information from solid to semi solid to lyophilized drug products

Recent Advances in Novel Drug Carrier Systems Ali Demir Sezer, 2012-10-31 This contribution book collects reviews and original articles from eminent experts working in the interdisciplinary arena of novel drug delivery systems and their uses From their direct and recent experience the readers can achieve a wide vision on the new and ongoing potentialities of different drug delivery systems Since the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery On the other hand this reference discusses advances in the design optimization and adaptation of gene delivery systems for the treatment of cancer cardiovascular pulmonary genetic and infectious diseases and considers assessment and review procedures involved in the development of gene based pharmaceuticals

Chemical Engineering in the Pharmaceutical Industry David J. am Ende, 2011-03-10 This book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical R D The book is intended to be used as a professional reference and potentially as a text book reference in pharmaceutical engineering and pharmaceutical sciences Many of the experimental methods related to pharmaceutical process development are learned on the job This book is intended to provide many of those important concepts that R D Engineers and manufacturing Engineers should know and be familiar if they are going to be successful in the Pharmaceutical Industry These include basic analytics for quantitation of reaction components often skipped in ChE Reaction Engineering and kinetics books In addition Chemical Engineering in the Pharmaceutical Industry introduces contemporary methods of data analysis for kinetic modeling and extends these concepts into Quality by Design strategies for regulatory filings For the current professionals in silico process modeling tools that streamline experimental screening approaches is also new and presented here Continuous flow processing although mainstream for ChE is unique in this context given the range of scales and the complex economics associated with transforming existing batch plant capacity The book will be split into four distinct yet related parts These parts will address the fundamentals of analytical techniques for engineers thermodynamic modeling and finally provides an appendix with common engineering tools and examples of their applications

Modified-Release Drug Delivery Technology Michael Rathbone, Jonathan Hadgraft, Michael S.

Roberts, Majella E. Lane, 2008-05-28 This two volume Second Edition describes the anatomical physiological pharmaceutical and technological aspects of delivery routes found in areas like Oral Ocular Dermal and transdermal Vaginal Colonic Oral mucosal Nasal Pulmonary Providing insight and critical assessment of the many available and emerging modified release drug delivery systems fo

Developing Solid Oral Dosage Forms Yihong Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lawrence Yu, Rao V. Mantri, 2016-11-08 Developing Solid Oral Dosage Forms Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives

Pharmaceutical Photostability and Stabilization Technology Joseph T. Piechocki, Karl Thoma, 2006-09-18 Based on a training course developed by Dr Joseph T Piechocki and other experts in this field whose contributions appear in this book for two International Meetings on the Photostability of Drugs and Drug Products this text clarifies the guidelines set by the International Conference on Harmonization ICH and provides a comprehensive background

Pharmaceutical Inhalation Aerosol Technology, Second Edition Anthony J. Hickey, 2003-09-03 This thoroughly revised and expanded reference provides authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosol It analyzes the latest science and developments in the generation administration and characterization of these compounds showcasing current clinical applications the efficiency and limitations of major aerosol products and emerging aerosol therapies impacting the field

The Pharmaceutical Regulatory Process Ira R. Berry, Robert P. Martin, 2008-12-02 This Second Edition examines the mechanisms and means to establish regulatory compliance for pharmaceutical products and company practices It focuses on major legislative revisions that impact requirements for drug safety reviews product regulatory approvals and marketing practices Written by top industry professionals practicing attorneys an

Advancements in Controlled Drug Delivery Systems Verma, Shekhar, Verma, Santosh

Kumar,2022-03-25 The many drawbacks of conventional dosage forms and delivery systems are overcome by designing and developing controlled release drug delivery systems and pharmaceutical and other scientists have carried out extensive and intensive investigations in the field to explore their applications A controlled release drug formulation can improve product efficacy and extend patent protection As controlled drug delivery systems continue to play a vital role in delivering various types of therapeutic agents in a controlled manner researchers are only just scratching the surface of their full potential Advancements in Controlled Drug Delivery Systems supplies information on translating the physicochemical properties of drugs into drug delivery systems explores how drugs are administered via various routes and discusses recent advancements in the fabrication and development of controlled drug delivery systems It also underlines the methodology of controlled drug delivery system preparation and the significance disadvantages detailed classifications and relevant examples Covering topics such as machine learning and oral controlled drug delivery this book is ideal for pharmacists healthcare professionals researchers academicians research centers health units students and pharmaceutical and scientific laboratories

Pharmaceutical Project Management Anthony Kennedy,2008-03-17 Encompassing the full spectrum of project management s role and responsibility encountered in the pharmaceutical industry Pharmaceutical Project Management outlines the key objectives risks and challenges of each stage of the pharmaceutical lifecycle from discovery and preclinical phases through clinical development manufacturing registration

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