

Solid Pharmaceuticals: Mechanical Properties and Rate Phenomena

Carstensen, Jens Thuro

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Solid Pharmaceutics Jens Thuro Carstensen,1980 **Advanced Pharmaceutical Solids** Jens T.

Carstensen,2000-10-24 This extensive reference text explores the principles instrumentation processes and programs of pharmaceutical solid science as well as new aspects on one component systems micromeritics polymorphism solid state stability cohesion powder flow blending single unit sustained release and tablet coating Reveals unique approaches in phar

Handbook of Pharmaceutical Salts Properties, Selection, and Use P. Heinrich Stahl,2008-08-04 This

comprehensive up to date guide and information source is an instructive companion for all scientists involved in research and development of drugs and in particular of pharmaceutical dosage forms The editors have taken care to address every conceivable aspect of the preparation of pharmaceutical salts and present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts Altogether the contributions reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products Pharmaceutical

Process Engineering and Scale-up Principles Anil B. Jindal,2023-07-03 The book offers a comprehensive overview of the unit operations involved in the manufacturing process of solid and liquid dosage forms along with the scale up of each operation This book is a valuable resource for professionals working in the pharmaceutical industry and researchers seeking to develop a comprehensive understanding of the various aspects of the manufacturing process The book is divided into four sections covering a range of topics Section I provide readers with a comprehensive understanding of the basic principles behind the manufacturing process of solid and liquid dosage forms Section II covers the different unit operations involved in the production of solid dosage forms including mixing granulation drying compression coating and size reduction This section includes case studies to provide readers with practical insights into the scale up principles involved in the manufacturing process Section III focuses on the manufacturing and scale up of liquid formulations covering topics such as mixing filtration and scale up of liquid mixing process This section offers a comprehensive understanding of the various aspects of the manufacturing process including the challenges and opportunities associated with the scale up of liquid formulations Finally Section IV includes two chapters that describe the manufacturing and scale up of advanced drug delivery systems including the manufacturing and scale up of nanoparticles and biotechnology derived products This section provides readers with insights into the development of innovative drug delivery systems and the challenges involved in their scale up Overall the book is an essential guide for professionals and researchers seeking a deeper understanding of the manufacturing process The case studies and practical examples offer valuable insights into the challenges and opportunities involved in the scale up process making it an indispensable resource for those involved in the pharmaceutical industry Only book that is dedicated to pharmaceutical process engineering and scale up Contain numerous case studies for easy reference Covers solid liquid and advanced dosage forms **Particulate Interactions in Dry Powder Formulation for Inhalation** Xian Ming Zeng,Gary

Peter Martin, Christopher Marriott, 2000-10-26 Interactions between drug particulates are crucial in determining drug dispersion and deaggregation and ultimately delivery efficiency This book combines principles established in surface and colloidal chemistry with pharmaceutical powder technology It discusses some of the factors affecting particulate interactions and particle fluid interaction in the respiratory tract It review some of the studies carried out in dry powder formulation development and proposes possible strategies in improving DPI efficiency The majority of these principles are applicable to other pharmaceutical solid dosage forms e g tablets and capsules

A Guide to Particulate Science in Pharmaceutical Product Development Margaret D. Louey, Timothy M. Crowder, Anthony J. Hickey, 2025-08-04 The pharmaceutical

applications of powder technology have long been recognized Yet while many books focus on aspects of powder formation and behavior there are few texts that explore the power of particulate science in the design manufacture and control of quality medicines This revision discusses key principles and practical applications The authors cover particulate material its form and production sampling from bodies of powder particle size descriptors and statistics behavior of particles and powder instrumental analysis particle size measurement and synergy of adopted techniques and in vitro and in vivo performance criteria Case studies are included in this new edition This fully revised edition Provides an essential account of particulate science including several new chapters on multicomponent particles regulatory considerations and product development Presents a variety of topics ranging from the quality of published data on particle size in pharmaceuticals to the future of crystal engineering Reviews methods of particle measurement and their importance for specific applications Discusses misconceptions and misunderstandings of particulate science together with lessons from other industries

Excipient Applications in Formulation Design and Drug Delivery Ajit S Narang, Sai H S. Boddu, 2015-10-07 In recent years emerging trends in the design and development of drug products have indicated ever greater need for integrated characterization of excipients and in depth understanding of their roles in drug delivery applications This book presents a concise summary of relevant scientific and mechanistic information that can aid the use of excipients in formulation design and drug delivery applications Each chapter is contributed by chosen experts in their respective fields which affords truly in depth perspective into a spectrum of excipient focused topics This book captures current subjects of interest with the most up to date research updates in the field of pharmaceutical excipients This includes areas of interest to the biopharmaceutical industry users students educators excipient manufacturers and regulatory bodies alike

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

Pharmaceutical Salts and Co-crystals Johan Wouters, Luc Quéré, 2011-11-04 From crystal structure prediction to totally empirical screening the quest for new crystal forms has become one of the most challenging issues in the solid state science and particularly in the pharmaceutical world In this context multi component crystalline materials like co crystals have received renewed interest as they offer the prospect of optimized physical properties As illustrated in this first book_ entirely dedicated to this emerging class of

pharmaceutical compounds_ the outcome of such endeavours into crystal engineering have demonstrated clear impacts on production marketing and intellectual property protection of active pharmaceutical ingredients APIs Indeed co crystallization influences relevant physico chemical parameters such as solubility dissolution rate chemical stability melting point hygroscopicity and often offers solids with properties superior to those of the free drug Combining both reports of the latest research and comprehensive overviews of basic principles with contributions from selected experts in both academia and industry this unique book is an essential reference ideal for pharmaceutical development scientists and graduate students in pharmaceutical science

Pharmaceutical Process Scale-Up Michael Levin, 2001-12-12 Focusing on scientific and practical aspects of process scale up this resource details the theory and practice of transferring pharmaceutical processes from laboratory scale to the pilot plant and production scale It covers parenteral and nonparenteral liquids and semi solids products derived from biotechnology dry blending and powder handling

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Solid Pharmaceuticals Mechanical Properties And Rate Phenomena By Carstensen**

In a global inundated with monitors and the cacophony of immediate connection, the profound energy and emotional resonance of verbal art often fade in to obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, situated within the lyrical pages of **Solid Pharmaceuticals Mechanical Properties And Rate Phenomena By Carstensen**, a charming work of literary elegance that impulses with raw feelings, lies an unforgettable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this magical opus guides viewers on an emotional odyssey, lightly exposing the latent potential and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main styles, dissect their captivating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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