



Edited by **Otilia M. Y. Koo**

Pharmaceutical Excipients

Properties, Functionality, and Applications
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Innovative Pharmaceutical Excipients: Natural Sources Jailani. S,Kuldeep Vinchurkar,Meghraj Suryawanshi,Sheetal Mane,2025-07-28 This book offers an in depth exploration of the latest advancements in pharmaceutical excipients by addressing the growing need for sustainable and biocompatible options The book will covers a wide range of topics including the extraction and characterization of natural polymers plant derived excipients marine polymers polysaccharides proteins peptides lipids gums and mucilages It emphasizes their applications in solid dosage forms controlled release systems and oral drug delivery Additionally the volume discusses bioavailability enhancement and regulatory aspects making it a vital resource for understanding the potential and challenges of natural excipients in pharmaceuticals The next edition Innovative Pharmaceutical Excipients Biomaterials and Innovations is also planned and in progress The main topics covered in this book are crucial for advancing drug delivery technologies enhancing therapeutic efficacy and ensuring patient safety By integrating natural and biomaterial based excipients the book addresses the industry s need for more effective biocompatible and sustainable solutions Researchers and professionals will find valuable information on how to overcome the limitations of synthetic excipients improve drug bioavailability and develop innovative drug delivery systems Targeted at pharmaceutical scientists formulators researchers and regulatory professionals this book is an essential resource for anyone involved in drug development and delivery It aims to equip readers with the knowledge and tools needed to leverage natural and biomaterial based excipients for cutting edge pharmaceutical applications

Processed Excipients in Advanced Drug Delivery Sudarshan Singh,Bhupendra Prajapati,Rishabha Malviya,Sonali Sundram,2025-10-21 Excipients are important components of

drug formulations playing a critical role in ensuring the safety efficacy and stability of pharmaceutical products In recent years there has been a growing demand for advanced drug delivery systems that can improve the bioavailability targeting and sustained release of therapeutics The development of these systems relies heavily not only on excipients but also on the use of processed excipients which have been specifically designed and engineered to meet the unique challenges and requirements of advanced drug delivery This new volume provides a comprehensive overview of the state of art research on processed excipients and their utilization in fabrication of advanced drug delivery Beginning with an introduction and overview the volume covers novel solid dosage forms pharmaceutical and biomedical applications nasal drug delivery ocular drug delivery transdermal drug delivery parenteral medication delivery pharmacokinetics and pharmacodynamics of processed excipients and much more

Inulin for Pharmaceutical Applications Wasim Akram,Neeraj Mishra,Tanweer Haider,2025-01-30 This book explores the different uses of inulin in pharmaceutical formulations its potential therapeutic benefits and the regulatory considerations involved in developing inulin based pharmaceutical products The book covers topics such as the physical and chemical properties of inulin its use in drug delivery and controlled release systems therapeutic applications in managing metabolic disorders gastrointestinal disorders immune function bone health and brain health as well as the regulatory considerations involved in developing inulin based pharmaceutical products The book aims to provide a complete understanding of the various applications of inulin in the pharmaceutical industry making it relevant and significant for pharmaceutical professionals seeking to develop new drugs and drug delivery systems Additionally it provides valuable information for researchers and scientists working on inulin based treatments and formulations It appears to be a comprehensive guide for scientists researchers and pharmaceutical professionals interested in understanding the various applications of inulin in the pharmaceutical industry

Multivariate Analysis in the Pharmaceutical Industry Ana Patricia Ferreira,Jose C. Menezes,Mike Tobyn,2018-04-24 Multivariate Analysis in the Pharmaceutical Industry provides industry practitioners with guidance on multivariate data methods and their applications over the lifecycle of a pharmaceutical product from process development to routine manufacturing focusing on the challenges specific to each step It includes an overview of regulatory guidance specific to the use of these methods along with perspectives on the applications of these methods that allow for testing monitoring and controlling products and processes The book seeks to put multivariate analysis into a pharmaceutical context for the benefit of pharmaceutical practitioners potential practitioners managers and regulators Users will find a resources that addresses an unmet need on how pharmaceutical industry professionals can extract value from data that is routinely collected on products and processes especially as these techniques become more widely used and ultimately expected by regulators Targets pharmaceutical industry practitioners and regulatory staff by addressing industry specific challenges Includes case studies from different pharmaceutical companies and across product lifecycle of to introduce readers to the breadth of applications Contains information on the current

regulatory framework which will shape how multivariate analysis MVA is used in years to come

3D & 4D Printing Methods for Pharmaceutical Manufacturing and Personalised Drug Delivery Dimitrios Lamprou, 2023-08-04 New materials and manufacturing techniques are emerging with potential to address the challenges associated with the manufacture of pharmaceutical systems that will teach new tricks to old drugs 3D printing 3DP is a technique that can be used for the manufacturing of dosage forms and especially targeting paediatric and geriatric formulations as it permits the fabrication of high degrees of complexity with great reproducibility in a fast and cost effective fashion and offers a new paradigm for the direct manufacture of personalised dosage forms The book is covering the basics behind each additive manufacturing AM method current applications in pharmaceuticals for each 3DP method and case studies examples from a teaching perspective targeting undergraduate UG and postgraduate PG students A unique to this book is the integration of studies based upon the use of different AM technologies which are designed to reinforce important printing parameters and material considerations The book includes case studies or multiple choice questions MCQs which allow application of the content in a flipped classroom

Biodegradable and Biobased Polymers for Environmental and Biomedical Applications Susheel Kalia, Luc Avérous, 2016-01-29 This volume incorporates 13 contributions from renowned experts from the relevant research fields that are related to biodegradable and biobased polymers and their environmental and biomedical applications Specifically the book highlights developments in polyhydroxyalkanoates applications in agriculture biodegradable packaging material and biomedical field like drug delivery systems implants tissue engineering and scaffolds The synthesis and elaboration of cellulose microfibrils from sisal fibres for high performance engineering applications in various sectors such as the automotive and aerospace industries or for building and construction The different classes and chemical modifications of tannins Electro activity and applications of *Jatropha* latex and seed The synthesis properties and applications of poly lactic acid The synthesis processing and properties of poly butylene succinate its copolymers composites and nanocomposites The different routes for preparation of polymers from vegetable oil and the effects of reinforcement and nano reinforcement on the physical properties of such biobased polymers The different types of modified drug delivery systems together with the concept of the drug delivery matrix for controlled release of drugs and for antitumor drugs The use of nanocellulose as sustainable adsorbents for the removal of water pollutants mainly heavy metal ions organic molecules dyes oil and CO₂ The main extraction techniques structure properties and different chemical modifications of lignins Proteins and nucleic acids based biopolymers The role of tamarind seed polysaccharide based multiple unit systems in sustained drug release

Handbook of Pharmaceutical Excipients, 1986 Provides data on the additives used to convert pharmacologically active compounds into dosage forms suitable for administration to patients Data includes nonproprietary names functional category synonyms chemical names and CAS Registry number empirical formula molecular weight structural formula commercial availability method of manufacture description pharmacopeial specifications typical properties stability and storage

conditions incompatibilities safety handling precautions regulatory acceptance applications in pharmaceutical formulation or technology use related substances comments and specific references **Pharmaceutical Science : Its Past and Its Future** ,1985 *Agriculture and Natural Resources* ,2018 **ESN Information Bulletin** ,1989 *Chemistry and Industry* ,2007 *European Scientific Notes* ,1989 **New and Advanced Materials** Huai Ying Zhou,Tian Long Gu,Dao Guo Yang,Zheng Yi Jiang,Jian Min Zeng,2011-02-21 Selected peer reviewed papers from the International Conference on Manufacturing Science and Engineering ICMSE 2011 9 11 April 2011 Guilin China Subject Guide to Books in Print ,1991

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 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2008 **ICIS Chemical Business** ,2009 **Chemical Engineering Progress** ,2005

Reviewing **Pharmaceutical Excipients Properties Functionality And Applications In Research And Industry:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Pharmaceutical Excipients Properties Functionality And Applications In Research And Industry**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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