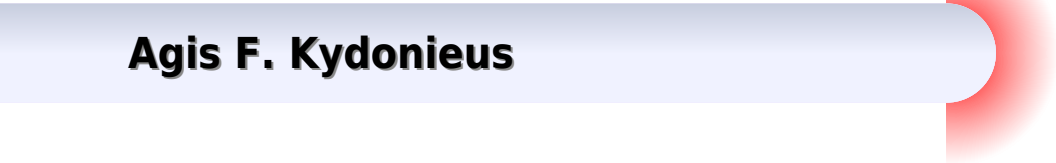

TREATISE ON CONTROLLED DRUG DELIVERY

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Treatise On Controlled Drug Delivery Fundamentals Optimization Applications

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Basic Fundamentals of Drug Delivery, 2018-11-30 Basic Fundamentals of Drug Delivery covers the fundamental principles advanced methodologies and technologies employed by pharmaceutical scientists researchers and pharmaceutical industries to transform a drug candidate or new chemical entity into a final administrable drug delivery system The book also covers various approaches involved in optimizing the therapeutic performance of a biomolecule while designing its appropriate advanced formulation Provides up to date information on translating the physicochemical properties of drugs into drug delivery systems Explores how drugs are administered via various routes such as orally parenterally transdermally or through inhalation Contains extensive references and further reading for course and self study

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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 (APIs) 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.

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Drug Delivery and Targeting Anya M. Hillery, Andrew W.

Lloyd, James Swarbrick, 2003-09-02 The advances in biotechnology and molecular biology over recent years have resulted in a large number of novel molecules with the potential to revolutionize the treatment and prevention of disease. However, such potential is severely compromised by significant obstacles to delivery of these drugs in vivo. These obstacles are often so great that effective drug delivery and targeting is now recognized as the key to effective development of many therapeutics. Advanced drug delivery and targeting can offer significant advantages to conventional drugs such as increased efficiency, convenience, and the potential for line extensions and market expansion. An accessible and easy-to-read textbook, *Drug Delivery and Targeting for Pharmacists and Pharmaceutical Scientists* is the first book to provide a comprehensive introduction to the principles of advanced drug delivery and targeting, their current applications, and potential future developments, including methods to optimize therapeutic efficacy and the related commercial implications. Difficulties with drug absorption, unwanted distribution, and premature inactivation/elimination. Attempts to minimize toxicity or alter immunogenicity. Methods to achieve rate-controlled drug release and effective drug targeting. Novel and established routes of delivery. Use of new generation technologies such as biosensors, microchips, stimuli-sensitive hydrogels, and plasmid-based gene therapy. This volume is indispensable for pharmaceutical students, scientists, and researchers. **FASTtrack**

Pharmaceutics Yvonne Perrie, Thomas Rades, 2012 *Pharmaceutics: Drug delivery and targeting* focuses on what pharmacy students really need to know in order to pass exams, providing concise bulleted information, key points, tips, and an all-important self-assessment section which includes MCQs. Page 4 of cover. *Nanotechnology Based Advanced Medical Textiles and Biotextiles for Healthcare* Prashansa Sharma, Devsuni Singh, Suman Pant, Vivek Dave, 2024-05-27 This book provides systematic coverage of research into medical and biotextiles based on nanomaterials as applicable in healthcare. Divided into three sections, it explains manufacturing properties, types, and recent developments in nanotechnology-based medical textiles, backed by case studies. It includes a wide range of different clinical applications of biotextiles for healthcare, including nanotextile scaffolds, nano-based artificial organs, surgical sutures, enzymatic-assisted enhanced biotextiles, tissue engineering, or drug delivery system via nanofibers and so forth. Features: Provides strong and broad overview of medical applications in the field of nano and biotextiles. Highlights different approaches, recent research, and emerging innovations. Covers designing or developing nanomaterials-based antiviral surface disinfectants with self-cleaning property. Reviews different applications of nano-based medical textiles such as deodorizing or pH control clothing for hygiene maintenance. Includes the real-life applications based on descriptive case studies that offer a diverse range of perspectives. This book is aimed at researchers and graduate students in textile technology and engineering and medical textiles. **Multifaceted Development and Application of Biopolymers for Biology, Biomedicine and Nanotechnology** P.K. Dutta, Joydeep Dutta, 2013-09-18 *Nanoparticles for Gene Delivery into Stem Cells and Embryos* by Pallavi Pushp, Rajdeep Kaur, Hoon Taek Lee, Mukesh Kumar Gupta. *Engineering of Polysaccharides via Nanotechnology* by Joydeep Dutta. *Hydroxyapatite Packed*

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Drug Stability and Chemical Kinetics Muhammad Sajid Hamid Akash, Kanwal Rehman, 2020-11-01 This book comprehensively reviews drug stability and chemical kinetics how external factors can influence the stability of drugs and the reaction rates that trigger these effects Explaining the important theoretical concepts of drug stability and chemical kinetics and providing numerous examples in the form of illustrations tables and calculations the book helps readers gain a better understanding of the rates of reactions order of reactions types of degradation and how to prevent it as well as types of stability studies It also offers insights into the importance of the rate at which the drug is degraded and or decomposed under various external and internal conditions including temperature pH humidity and light This book is intended for researchers PhD students and scientists working in the field of pharmacy pharmacology pharmaceutical chemistry medicinal chemistry and biopharmaceutics

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on drug delivery systems Coverage includes liposomal transmucosal transdermal oral polymeric and monoclonal antibody directed delivery Each chapter provides a table of marketed and investigational products with numerous practical examples The book also provides readers with a multitude of possible drug delivery systems that can be used to improve therapeutics along with global and regulatory perspectives This third edition contains a chapter on nanoscience and technology for drug delivery along with cutting edge business intelligence and strategies Written in a straightforward manner the authors provide a global perspective on current and future advances and market opportunities Supplying a cogent overview of the field and extensive guidance on where to get more information it is an essential resource for anyone venturing into this area of drug development

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