Controlled Drug Bioavailability Bioavailability Control By Drug Delivery System Design

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Biostatistical Control by Drug Delivery System Design - Vitez F. Semlos - 1985

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Controlled Release in Oral Drug Delivery - Cécile G. Wilson - 2011-09-22

Controlled Release in Oral Drug Delivery provides focus on topics, complementing other books in the initial volume. Each chapter is focused for the investigator interested in some unique aspects of drug delivery and its insinuations allow. In order to provide some similar view to each chapter, the coverage includes the historical overview, candidate drugs, factors influencing design and formulation, and manufacturing and delivery system design. The section on systems design is补足性, medication, anatomy, and physiology, a discussion on candidates for oral drug delivery and the three major groups of controlled release systems: diffusion controlled (swelling and inert matrices); environmental control (pH sensitive coatings, time control, enzymatic control, pressure control); and finally lipidic systems.

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Innovation in Nano-polysaccharides for Eco-sustainability: From Science to Industrial Applications presents fundamentals, advanced preparation methods, and novel applications for polysaccharide-based nanomaterials. Sections cover the fundamental aspects of polysaccharides and nano-polysaccharides, including their structure and properties, and surface modification. Key considerations include the biocompatibility and biodegradability of polysaccharides and their derivatives, the role of polysaccharide-protein interactions, and the connection between the substituents of polysaccharides and their resulting physical properties, such as swelling, viscosity, and surface charge. Sections on alternative strategies for the production of polysaccharide-based nanomaterials are also provided, including the discussion on the production of polysaccharide-based nanomaterials for specific applications.

Innovation in Nano-polysaccharides for Eco-sustainability - Preeti Singh - 2021-10-15

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The book also covers the fundamentals of controlled drug delivery, including the basic principles of the field, types of delivery systems, and key factors influencing drug delivery. It provides an overview of the history of drug delivery systems and their evolution over time, as well as a discussion on the current challenges and future directions in the field.

The Target Organ and the Toxic Process - Philip L. Chambers - 2012-12-06

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Encapsulation and Controlled Release - D R Karo - 1993-01-01
Encapsulation and controlled release combines basic information on the subject with details of the latest research methods suitable for both newcomers to the field and those with experience of encapsulation technology. It will also be of great interest to those working on water-soluble or dispersible polymers, as well as application chemists and biochemists in diverse areas.

Glaucoma Medical Therapy - P.A. Neland - 2012-03-29

Current Catalog - National Library of Medicine (U.S.) - 1984
First multi-year cumulative covers six years. 1965-70

Current Catalog - National Library of Medicine (U.S.) - 1984
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National Library of Medicine Current Catalog - National Library of Medicine (U.S.)

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Advances in Blood Substitutes - R. Winold - 1997-09-23
Each author was first to review an exchange, then the editor contributed to the exchange. The "Current Issues in Blood Substitutes Research and Development" course given in San Diego, March 17-19. The course will cover recent research results, case histories, and experts will discuss the availability and future potential of the advancement of the field, and which reflect activity in "hot" areas of relevant research. While there is a continuity in the annual course, each year brings changes in emphasis and content. In previous years, we were often overwhelmed by the rapid growth and advances in the field. This year, we believe that the participants have an opportunity to address the challenges of the year. We hope that the current exchange will facilitate a greater understanding of the various aspects of the blood substitutes research and development.

Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules in the solids in which they are embedded is a key to the future of the greatest advancements in nanotechnology - as well as the foundation of the fantastic micro technologies on which so much of our world is now based. This book demonstrates how the latest innovations in research landscape in chemistry, materials science, and physics, with numerous applications in consumer products, such as sunscreens and water-soluble textiles. It is also thanks to this multidisciplinary field that flat panel display, highly efficient solar cells, and new biological imaging techniques have become reality. This second edition is aimed to address the rapid pace of change in recent years. Internationally recognized experts provide comprehensive, first-hand information, resulting in an overview of the field of micro and nanotechnology and their future applications. The book covers recent advances in nanotechnology and future applications of nanomaterials, the fundamentals of nanotechnologies leading to the nanoscale objects as well as the ongoing miniautization toward the nanoscale objects. Along the way, the authors explain the effects occurring in the nanoworld that are unique to this particular scale, such as quantum effects and chemically active surfaces.

Bioavailability Determination of Drugs with Michaelis-Menten Elimination Kinetics - Gerald Michael Rubin - 1987

Bioavailability Determination of Drugs with Michaelis-Menten Elimination Kinetics - Gerald Michael Rubin - 1987

Interpharm Master Keyword Guide - Interpharm - 2003-03-27
The best and most useful aid available for finding all references to FDA and DEA regulations, Interpharm Master Keyword Guide and Interpharm Master Catalog are produced annually. Each chapter of this volume is a contribution from an expert in the field, chosen by the editors to contribute to the "Current Issues in Blood Substitutes Research and Development" course given in San Diego, March 17-19. The course will cover recent research results, case histories, and experts will discuss the availability and future potential of the advancement of the field, and which reflect activity in "hot" areas of relevant research. While there is a continuity in the annual course, each year brings changes in emphasis and content. In previous years, we were often overwhelmed by the rapid growth and advances in the field. This year, we believe that the participants have an opportunity to address the challenges of the year. We hope that the current exchange will facilitate a greater understanding of the various aspects of the blood substitutes research and development. The third edition of this introductory text covers the factors which influence the release of the drug from the drug delivery system design. This third edition also covers new chapters on drug distribution, cellular applications, enzyme kinases and pharmacokinetics models.

Pharmaceutical Formulation Design - Otsane Cafrin - 2016
Among continuous manufacturing processes, hot melt extrusion is a technique with growing interest in the field. This process consists of the blending of many drugs within a polymeric or liquid carrier. Hot melt extrusion can be widely used for different issues using the appropriate carrier and drug mass fraction. Formulations for both solid and liquid can be produced successfully with hot melt extrusion, with a high potential for scale-up and process optimization. This book aims to serve the need of all individuals involved at any level in the pharmaceutical dosage form development. I sincerely hope that the book will be liked by inquisitive students and learned colleagues.

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PEO Hot Melt Extrudates for Controlled Drug Delivery - Otsane Cafrin - 2016
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Drug Delivery Systems - Pamela Macintyre - 2008-09-26


In Vivo-In Vivo Correlations - David B. Young - 2013-03-08

Nanostructures for the Engineering of Cells, Tissues and Organs - Alexandre Mils Almageme - 2018-03-24

Nanotechnology seeks to exploit distinct technological advantages controlling the structure of nanoscale biomaterials to engineer functional devices and molecules that can be used in drug delivery, imaging, and targeting of active molecules of pharmaceutical interest.

The purpose of the workshop was to discuss new concepts and methods in the development of in vitro-in vivo relationships for ER products. The original idea went back up approximately 15 months prior to the workshop itself. At that time, the principal collaborators had been working together on various aspects of dosage form development.

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Unlisted Drugs - 1987

6th International Conference on the Development of Biomedical Engineering in Vietnam (BEME) - Toi Vu - 2017-09-21

Under the title "Healthcare Technology for Developing Countries" this book publishes many topics which are crucial for the health care systems in upcomming countries. The topics include Cyber Medical Systems Medical Instrumentation Nanomedicine and Drug Delivery Systems Public Health Entrepreneurship This proceedings volume offers the scientific results of the 6th International Conference on the Development of Biomedical Engineering in Vietnam, held in 2016 at Hanoi City.

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Open Controlled Release Formulation Design and Drug Delivery - Hong Wen - 2013-04-14

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The concept of focal controlled drug delivery has been applied for treating illnesses that are localized to a certain tissue or organ. These delivery systems are applied directly to the diseased site and deliver a desired dose for an extended time period while minimizing systemic distribution of toxic drug. Controlled drug delivery systems have been focused on oral extended release formulations and on systemic delivery of small drugs and peptides. Despite the upsurge of interest in focal targeted drug delivery, there is currently no single reference text on the subject. By comparison, there are numerous authored and edited books on oral, systemic and transdermal drug delivery or books on biodegradable polymers as drug carriers. Thus, the aim of Focal Drug Delivery is to bring together leading experts and researchers in the field to provide an authoritative account of the essential pharmacological, technological, physiological and biological sciences underpinning the topic. In addition, the book will review advances in treatment options for diseases localized at a certain tissue or organ.

### Focal Controlled Drug Delivery - Abraham J. Domb - 2014-02-17

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### Nanocarriers: Drug Delivery System - Nirmal Shal - 2021-01-22

A suitable drug delivery system is an essential element in achieving efficient therapeutic responses of drug molecules. With this diversity in mind, the book unites different techniques through which extremely small-sized particles can be utilized as a successful carrier for curing chronic as well as life-threatening diseases. This is a highly informative and prudently organized book, providing scientific insight for readers with an interest in nanotechnology. Beginning with an overview of nanocarriers, the book imperative to enquire other essential ways through which these carriers can be employed for drug delivery to various of administrative routes. This book discusses the functional and significant features of nanotechnology in terms of Lymphatic and other drug targeting deliveries. The book is presenting depth acquaintance for various vesicular and particulate nano-drug delivery carriers, utilized successfully in Pharmaceutical as well as in Cosmeceutical industries along with detailed information on their related toxicities. In addition, the work also explores the potential applications of nanocarriers in Immunotechnology for the prompt and safe delivery of nucleic acid, protein, and peptide-based drugs. An exclusive section in the book illuminates the prominence and competent applicability of nanotechnology in the treatment of oral cancer. The persistence of this book is to provide basic to advanced information for different novel carriers which are under scale-up consideration for the extensive commercialization. The book also includes recent discoveries and the latest patents of such nanocarriers. The cutting-edge evidence of these nanocarriers available in this book is beneficial to students, research scholars, and follows for promoting their advanced research.

### Stimuli-responsive Drug Delivery Systems - Amit Singh - 2018-07-09

The increased understanding of molecular aspects associated with chronic diseases, such as cancer and the role of tumor microenvironment, has led to the identification of endogenous and exogenous stimuli that can be exploited to devise “stimuli-responsive” materials for site-specific drug delivery applications. This book provides a comprehensive account on the design, materials chemistry, and application aspects behind these novel stimuli-responsive materials. Setting the scene, the editors open with a chapter addressing the need for smart materials in delivery applications for therapy, imaging and disease diagnosis. The following chapter describes the key physical and chemical aspects of smart materials, from lipids to polymers to hybrid materials, providing the reader with a springboard to delve into the more application oriented chapters that follow. With in-depth coverage of key delivery systems such as pH-responsive, temperature-responsive, enzymatically-responsive and light responsive systems, this book provides a rigorous foundation to the field. A perfect resource for graduate students and newcomers, the closing chapter on regulatory and commercialization challenges also makes the book ideal for those wanting to take the next step towards clinical translation.

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### Micro- and Nano- Particles as Drug Delivery Systems - Hiroshi Kage - 2018-02-23

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### Topics on Drug Metabolism - James Paxton - 2012-02-22

In order to avoid late-stage drug failure due to factors such as undesirable metabolic instability, toxic metabolites, drug-drug interactions, and polymorphic metabolism, an enormous amount of effort has been expended by both the pharmaceutical industry and academia towards developing more powerful techniques and screening assays to identify the metabolic profiles and enzymes involved in drug metabolism. This book presents some in-depth reviews of selected topics in drug metabolism. Among the key topics covered are: the interplay between drug transport and metabolism in oral bioavailability: the influence of genetic and epigenetic factors on drug metabolism; impact of disease on transport and metabolism; and the use of novel microfluidic techniques and novel LC/MS and genomics technologies to predict the metabolic parameters and profiles of potential new drug candidates.

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