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RAY CERVANTES

Pharmaceutical Inhalation Aerosol Technology, Third Edition CRC Press
Inhalation aerosols continue to be the basis for successful lung therapy for several diseases, with therapeutic strategies and the range of technology significantly evolving in recent years. In response, this third edition takes a new approach to reflect the close integration of technology with its application. After briefly presenting the general considerations that apply to aerosol inhalation, the central section of the book uses the focus on disease and therapeutic agents to illustrate the application of specific technologies. The final integrated strategies section draws the major points from the applications for disease targets and drug products.
the Science, the Products, the Government, the Business CRC Press
Since sterile filtration and purification steps are becoming more prevalent and critical within medicinal drug manufacturing, the third edition of Filtration and Purification in the Biopharmaceutical Industry greatly expands its focus with extensive new material on the critical role of purification and advances in filtration science and technology. It provides state-of-the-science information on all aspects of bioprocessing including the current methods, processes, technologies and equipment. It also covers industry standards and regulatory requirements for the pharmaceutical and biopharmaceutical industries. The book is an essential, comprehensive source for all involved in filtration and purification practices, training and compliance. It describes such technologies as viral retentive filters, membrane chromatography, downstream processing, cell harvesting, and sterile filtration. Features: Addresses recent biotechnology-related processes and advanced technologies such as viral retentive filters, membrane chromatography, downstream processing, cell harvesting, and sterile filtration of medium, buffer and end product Presents detailed updates on the latest FDA and EMA regulatory requirements involving filtration and purification practices, as well as discussions on best practises in filter integrity testing Describes current industry quality standards and validation requirements and provides guidance for compliance, not just from an end-user perspective, but also supplier requirement It discusses the advantages of single-use process technologies and the qualification needs Sterilizing grade filtration qualification and process validation is presented in detail to gain the understanding of the regulatory needs The book has been compilated by highly experienced contributors in the field of pharmaceutical and biopharmaceutical processing. Each specific topic has been thoroughly examined by a subject matter expert.
Modern Pharmaceutics Volume 1 John Wiley & Sons
With 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. Nanoparticulate Drug Delivery Systems addresses the scientific methodologies, formulation, processing, applications, recent trends, and e
Drug Targeting Technology CRC Press
As the generic pharmaceutical industry continues to grow and thrive, so does the need to conduct efficient and successful bioequivalence studies. In recent years, there have been significant changes to the statistical models for evaluating bioequivalence, and advances in the analytical technology used to detect drug and metabolite levels have made
Protein Formulation and Delivery CRC Press
This book continues to be the definitive reference on drug metabolism with an emphasis on new scientific and regulatory developments. It has been updated based on developments that have occurred in the last 5 years, with new chapters on large molecules disposition, stereo-selectivity in drug metabolism, drug transporters and metabolic activation of drugs. Some chapters have been prepared by new authors who have emerged as

subject area experts in the decade that has passed since publication of the first edition.
Pyrogens, LAL Testing and Depyrogenation CRC Press
Demonstrates how substitution of a variety of ligands can render albumin a versatile targeting tool for selective drug accumulation in various cell populations of the liver! This book discusses physical, chemical, and biological approaches to drug targeting technology, focusing on oral, dispersed system, topical, dermal, transdermal, and inh
Biomarkers in Clinical Drug Development CRC Press
The source Dermal Absorption and Toxicity Assessment supplies a state-of-the-art overview of the dermal absorption process, and is divided into six well organized sections. Written by internationally recognized experts in the field, this Second Edition is a complete revised and updated text, covering the wide range of methods used to assess skin ab
Handbook of Bioequivalence Testing CRC Press
Presenting applications in clinical development, pharmacokinetic/ pharmacodynamic modelling and clinical trial simulation, this reference studies the role of biomarkers in successful drug formulation and development.
The Art and Science of Dermal Formulation Development CRC Press
Authored by renowned leaders in the field, this comprehensive volume covers all aspects of drug-drug interactions, including preclinical, clinical, toxicological, and regulatory perspectives.Thoroughly updated, this second edition reflects the significant advances and includes extensive new material on:key interplay between transporters and enzymes
Encyclopedia of Pharmaceutical Technology CRC Press
Inhaled Pharmaceutical Product Development Perspectives: Challenges and Opportunities describes methods and procedures for consideration when developing inhaled pharmaceuticals, while commenting on product development strategies and their suitability to support regulatory submission. It bridges the gap between the aspirations of scientists invested in new technology development and the requirements that must be met for any new product. The book brings together emerging analytical and inhalation technologies, providing perspectives that illuminate formulation and device design, development, regulatory compliance, and practice. Focusing on underlying scientific and technical principles known to be acceptable from the current regulatory perspective, this monograph will remain useful as a high-level guide to inhaled product development for the foreseeable future. Discusses development strategies and best practices in the context of regulatory requirements Written by a broadly qualified expert drawing on the knowledge and critical opinions of key individuals in the field Includes a foreword by Charles G. Thiel
Inhalation Aerosols CRC Press
This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches. Features: Offers a comprehensive introduction to the fundamental concepts and underlying scientific principles of drug delivery and targeting Presents an in-depth analysis of the opportunities and obstacles afforded by the application of nanotechnologies for drug delivery and targeting Includes a revised and expanded section on the major epithelial routes of drug delivery currently under investigation Describes the most recent, emerging, and innovative technologies of drug delivery Provides real-life examples of the clinical translation of drug delivery technologies through the use of case studies Discusses the pertinent regulatory hurdles and safety issues of drug delivery and targeting systems—crucial considerations in order to achieve licensing approval for these new technologies
Pharmaceutical Inhalation Aerosol Technology, Second Edition CRC Press
Delivering an encompassing overview of the factors, varieties, and applications determining product containment, this concise reference provides authoritative information on containment processes. It reviews the historical context, definition, evolution, and application of containment technology, analyzes a variety of containment techniques in new
The Future of Pharmaceutical Product Development and Research Lippincott Williams & Wilkins
Pharmaceutical Inhalation Aerosol Technology, Second EditionCRC Press
CRC Press
This fully revised and updated third edition of Pharmaceutical Inhalation Aerosol Technology encompasses the scientific and technical foundation for the rationale, design, componentry, assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease. It focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery. The expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery, lung deposition and clearance that are used as measures of effective dose delivery. Key Features: Provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic,pharmacologic, metabolic, molecular, cellular and physicochemical factors, influencing the efficacy and utilization of pharmaceutical aerosols Emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery Addresses the physics, chemistry and engineering principles while establishing disease relevance Expands the ‘technology’ focus of the original volumes to address the title more directly Offers an impressive breadth of coverage as well as an international flavour from outstanding editors and contributors
Pharmaceutical Product Development Elsevier
With the rapid growth of the nanotechnology industry, the need to understand the biological effects of aerosol exposure has become increasingly important. Featuring contributions by leading experts in the field, Aerosols Handbook: Measurement, Dosimetry, and Health Effects, Second Edition offers an up-to-date overview of many aspects of aerosols, f
Bioequivalence Issues CRC Press
Following its successful predecessor, this book covers the fundamentals, delivery routes and vehicles, and practical applications of drug delivery. In the 2nd edition, almost all chapters from the previous are retained and updated and several new chapters added to make a more complete resource and reference. • Helps readers understand progress in drug delivery research and applications • Updates and expands coverage to

reflect advances in materials for delivery vehicles, drug delivery approaches, and therapeutics • Covers recent developments including transdermal and mucosal delivery, lymphatic system delivery, theranostics • Adds new chapters on nanoparticles, controlled drug release systems, theranostics, protein and peptide drugs, and biologics delivery

Drug Delivery Academic Press

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.

Handbook of Drug Metabolism, Third Edition CRC Press

Interconnecting the fundamentals of supercritical fluid (SCF) technologies, their current and anticipated utility in drug delivery, and process engineering advances from related methodological domains and pharmaceutical applications, this volume unlocks the potential of supercritical fluids to further the development of improved pharmaceutical products-from drug powders for respiratory delivery to drug delivery systems for controlled release.

Measurement, Dosimetry, and Health Effects, Second Edition CRC Press

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 nonparenterel liquids and semi-solids, products derived from biotechnology, dry blending and powder handling, granulation and drying, fluid bed applications, compaction and tableting, and film coating and regulatory requirements for scale-up and postapproval changes. Drawing on the experience of twenty contributing researchers, the book employs dimensional analysis as a unified scientific approach to quantify similar processes on different scales.

Pharmaceutical Gene Delivery Systems Pharmaceutical Inhalation Aerosol Technology, Second Edition

The Art and Science of Dermal Formulation Development is a comprehensive guide to the theory and practice of transdermal and topical formulation development, covering preclinical studies, evaluation, and regulatory approval. It enables the reader to understand the opportunities and challenges in developing products and how risks can be mitigated. Over the last 25 years, expertise in this area has declined whilst drug delivery systems for other administration routes have developed significantly. The advantages offered by transdermal and topical drug delivery remain compelling for sectors including the pharmaceutical industry, personal care, and cosmetics. This text addresses the dearth of expertise and discusses how skin can be a route of delivery and the processes in formulation development, but how such an application is very different to that used for oral, IV, and other administration routes. Key Features: Presents a practical guide for both industry and academia Focuses on and draws together the fundamental principles behind transdermal and topical drug delivery Illustrates the practicalities of formulation design using key case studies Gives an understanding of the skin as a route of delivery and how formulation development for such application differs from that for other administration routes