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MELENDEZ BRADFORD

1985 Annual Book of ASTM Standards
Elsevier
Shelf-Life Determination
Pharmaceutical Auditing Academic Press
Inhaled medicines are widely used to treat pulmonary and systemic diseases. The efficacy and safety of these medicines can be influenced by the deposited fraction, the regional deposition pattern within the lungs and by post-depositional events such as drug dissolution, absorption and clearance from the lungs. Optimizing performance of treatments thus requires that we understand and are able to quantify these product and drug attributes. Inhaled Medicines: Optimizing Development through Integration of In Silico, In Vitro and In Vivo Approaches explores the current state of the art with respect to inhalation drug delivery, technologies available to assess product performance, and novel in silico methods now available to link in vitro product performance to clinical performance. Recent developments in the latter field, especially the prospect of integration of three-dimensional Computational Fluid Particle Methods (3D-CFPD) with physiologically based pharmacokinetic (PBPK models), unlocks the potential for in silico population studies that can help inform and optimize treatment and product development strategies. In this highly multidisciplinary field, where progress occurs at the intersection of several disciplines of engineering and science, this work aims to integrate current knowledge and understanding and to articulate a clear vision for future developments. ? Considers the healthcare needs driving the field, and where inhaled drugs could have the maximum impact ? Gives a concise account of the state of the art in key areas and technologies such as device and formulation technologies, clinically relevant in vitro performance assessment, medical imaging, as well as in silico modelling and simulation ? Articulates how the combination of in vitro

product performance data, medical imaging and simulations technologies in the framework of large scale in silico pre-clinical trials could revolutionize the field ? Provides systematic and thorough referencing to sources offering a more-in-depth analysis of technical issues

Controlled Pulmonary Drug Delivery John Wiley & Sons

"A comprehensive overview of clinical laboratory toxicology services and analytes"--

A Guide to the Lautenberg Chemical Safety Act and Its Implementation CRC Press

Continuing a long tradition, Lu’s Basic Toxicology, Seventh Edition, combines relatively comprehensive coverage of toxic substances in food, air, and water with brevity, thereby continuing to serve as an updated introductory text for toxicology students and for those involved in allied sciences that require a background in toxicology. The new edition, which now becomes an edited work with contributions from experts around the globe, features four new chapters and a number of existing chapters that have been updated and expanded, notably those on mechanisms of toxic effects, conventional toxicity studies, the cardiovascular system, and risk assessment and regulatory toxicology. The book consists of four parts (Part I–Part IV) that provide guidance on principles of toxicology and testing procedures for toxicities as well as a concise, yet detailed, mechanism of both target organ and nontarget organ toxicities. The book is rounded off with a final section (Part IV) on the toxic effects of chemicals and risk assessment, giving toxicologists, both students and practicing professionals, the necessary tools to enhance their practice. This edition includes new chapters on Clinical Toxicology, Systems Toxicology, Chemicals and Children, and Toxicology of Reproductive Systems, providing the essentials of these topics in the same style as the other chapters in the book. With separate subject and chemical indexes, this is a useful, quick shelf reference for everyone working in toxicology today.

Method Validation in Pharmaceutical Analysis MDPI

Written by a researcher with experience designing, establishing, and validating biological manufacturing facilities worldwide, this is the first comprehensive introduction to disposable systems for biological drug manufacturing. It reviews the current state of the industry; tackles questions about safety, costs, regulations, and waste disposal; and guides readers to choose disposable components that meet their needs. This practical manual covers disposable containers, mixing systems, bioreactors, connectors and transfers, controls and sensors, downstream processing systems, filling and finishing systems, and filters. The author also shares his predictions for the future, calling disposable bioprocessing technology a "game changer."

Disposable Bioprocessing Systems John Wiley & Sons

Drug Delivery Trends examines a drift in the pharmaceutical field across the wide range of dosage forms, drug delivery systems (micro and nanoparticulate), at the regulatory front and on new types of therapies in the market. This volume additionally covers the challenges on drug delivery systems in terms of preclinical and current ways of determining quality and the options to solve the challenges associated with this. Most small-medium

scale industries and academics struggle with initial regulatory challenges so a detailed discussion on regulatory trend covers the necessary basic understanding of regulatory procedures and provides the required guidance. The series Expectations and Realities of Multifunctional Drug Delivery Systems examines the fabrication, optimization, biological aspects, regulatory and clinical success of wide range of drug delivery carriers. This series reviews multifunctionality and applications of drug delivery systems, industrial trends, regulatory challenges and in vivo success stories. Throughout the volumes discussions on diverse aspects of drug delivery carriers, such as clinical, engineering, and regulatory, facilitate insight sharing across expertise area and form a link for collaborations between industry-academic scientists and clinical researchers. Expectations and Realities of Multifunctional Drug Delivery Systems connects formulation scientists, regulatory experts, engineers, clinical experts and regulatory stake holders. The wide scope of the book ensures it as a valuable reference resource for researchers in both academia and the pharmaceutical industry who want to learn more about drug delivery systems. Encompasses trends in drug delivery systems and selected dosage forms Illustrates regulatory, preclinical and quality principles Contains in-depth investigation of upcoming types of drug delivery systems

New TSCA Humana Press

International Conference on Materials Design and Applications (ICMDA 2018) Selected, peer reviewed papers from the 2018 International Conference on Materials Design and Applications (ICMDA 2018), April 04-06, 2018, Colombo, Sri Lanka

From Bench to Bedside John Wiley & Sons

This book provides a serious introduction to the subject of mass spectrometry, providing the reader with the tools and information to be well prepared to perform such demanding work in a real-life laboratory. This essential tool bridges several subjects and many disciplines including pharmaceutical, environmental and biomedical analysis that are utilizing mass spectrometry: Covers all aspects of the use of mass spectrometry for quantitation purposes Written in textbook style to facilitate understanding of this topic Presents fundamentals and real-world examples in a ‘learning-though-doing’ style

siRNA and miRNA Gene Silencing

Elsevier

Gas chromatography continues to be one of the most widely used analytical techniques, since its applications today expand into fields such as biomarker research or metabolomics. This new practical textbook enables the reader to make full use of gas chromatography. Essential fundamentals and their implications for the practical work at the instrument are provided, as well as details on the instrumentation such as inlet systems, columns and detectors. Specialized techniques from all aspects of GC are introduced ranging from sample preparation, solvent-free injection techniques, and pyrolysis GC, to separation including fast GC and comprehensive GCxGC and finally detection, such as GC-MS and element-specific detection. Various fields of application such as enantiomer, food, flavor and fragrance analysis, physicochemical measurements, forensic

toxicology, and clinical analysis are discussed as well as cutting-edge application in metabolomics is covered.
7th Guide to German Medtech Companies 2021 John Wiley & Sons
"With the passage of the Frank R. Lautenberg Chemical Safety for the 21st Century Act on June 22, 2016, the main body of chemical management law in the United States changed dramatically. This guide summarizes the new law, highlights the changes that will have the greatest impact, and offers pertinent analysis on the implementation of the new law."--
Safety Evaluation, Qualification, and Best Practices Applied to Inhalation Drug Products Springer Nature
The focus of this book is on subjects related to drug delivery to the lung. The text spans topics from aerosol deposition through pharmaceutical chemistry and formulation to the final clinical evaluation of pharmaceutical products. Utilizing a multi-disciplinary approach, the chapters consider toxicology from the point of view of drugs and pharmaceutical excipients used in aerosols.
CRC Press
The shift towards being as environmentally-friendly as possible has resulted in the need for this important reference on the topic of designing safer chemicals. Edited by the leading international experts in the field, Robert Boethling and Adelina Votchkova, this volume covers such topics as toxicity, reducing hazards and biochemical pesticides. An essential resource for anyone wishing to gain an understanding of the world of green chemistry, as well as for chemists, environmental agencies and chemical engineers. The Handbook of Green Chemistry comprises of 9 volumes in total, split into 3 subject-specific sets. The three sets are available individually. All 9 volumes are available individually, too. Set I: Green Catalysis - Volume 1: Homogeneous Catalysis - Volume 2: Heterogeneous Catalysis - Volume 3: Biocatalysis Set II: Green Solvents - Volume 4: Supercritical Solvents - Volume 5: Reactions in Water - Volume 6: Ionic Liquids Set III: Green Processes - Volume 7: Green Synthesis - Volume 8: Green Nanoscience - Volume 9: Designing Safer Chemicals The Handbook of Green Chemistry is also available as Online Edition. Podcasts Listen to two podcasts in which Professor Paul Anastas and Journals Editor Paul Trevorrow discuss the origin and expansion of Green Chemistry and give an overview of The Handbook of Green Chemistry.
Respiratory Drug Delivery (1989)
Essential Chemistry for Formulators of Semisolid and Liquid Dosages
Examining the implications and practical implementation of multi-disciplinary International Conference on Harmonization (ICH) topics, this book gives an integrated view of how the guidelines inform drug development strategic planning and decision-making. • Addresses a consistent need for interpretation, training, and implementation examples of ICH guidelines via case studies • Offers a primary reference point for practitioners addressing the dual challenge of interpretation and practical implementation of ICH guidelines • Uses case studies to help readers understand and apply ICH guidelines • Provides valuable insights into guidelines development, with chapters by authors involved in generating or with experience implementing the guidelines • Includes coverage of stability testing, analytical

method validation, impurities, biotechnology drugs and products, and good manufacturing practice (GMP)

Trace Quantitative Analysis by Mass Spectrometry American Bar Association

A needed resource for pharmaceutical scientists and cosmetic chemists, Essential Chemistry for Formulators of Semisolid and Liquid Dosages provides insight into the basic chemistry of mixing different phases and test methods for the stability study of nonsolid formulations. The book covers foundational surface/colloid chemistry, which forms the necessary background for making emulsions, suspensions, solutions, and nano drug delivery systems, and the chemistry of mixing, which is critical for further formulation of drug delivery systems into semisolid (gels, creams, lotions, and ointments) or liquid final dosages. Expanding on these foundational principles, this useful guide explores stability testing methods, such as particle size, rheological/viscosity, microscopy, and chemical, and closes with a valuable discussion of regulatory issues. Essential Chemistry for Formulators of Semisolid and Liquid Dosages offers scientists and students the foundation and practical guidance to make and analyze semisolid and liquid formulations. Unique coverage of the underlying chemistry that makes possible stable dosages Quality content written by experienced experts from the drug development industry Valuable information for academic and industrial scientists developing topical and liquid dosage formulations for pharmaceutical as well as skin care and cosmetic products

Genotoxic Impurities Trans Tech Publications Ltd

The pace of new research and level of innovation repeatedly introduced into the field of drug delivery to the lung is surprising given its state of maturity since the introduction of the pressurized metered dose inhaler over a half a century ago. It is clear that our understanding of pulmonary drug delivery has now evolved to the point that inhalation aerosols can be controlled both spatially and temporally to optimize their biological effects. These abilities include controlling lung deposition, by adopting formulation strategies or device technologies, and controlling drug uptake and release through sophisticated particle technologies. The large number of contributions to the scientific literature and variety of excellent texts published in recent years is evidence for the continued interest in pulmonary drug delivery research. This reference text endeavors to bring together the fundamental theory and practice of controlled drug delivery to the airways that is unavailable elsewhere. Collating and synthesizing the material in this rapidly evolving field presented a challenge and ultimately a sense of achievement that is hopefully reflected in the content of the volume.

Fundamentals of Modern Bioprocessing CRC Press

Essential Chemistry for Formulators of Semisolid and Liquid DosagesAcademic Press

Optimizing Development through Integration of In Silico, In Vitro and In Vivo Approaches John Wiley & Sons

An expertly written source on the devices, systems, and technologies used in the dissolution testing of oral pharmaceutical dosage forms, this reference provides reader-friendly chapters on currently utilized equipment, equipment qualification, consideration of the

gastrointestinal physiology in test design, the analysis and interpretation of data and procedure automation -laying the foundation for the creation of appropriate and useful dissolution tests according to the anticipated location and duration of drug release from the dosage form within the gastrointestinal tract.

Additives for Polyolefins American Water Works Association

Adopting a practical approach, the authors provide a detailed interpretation of the existing regulations (GMP, ICH), while also discussing the appropriate calculations, parameters and tests. The book thus allows readers to validate the analysis of pharmaceutical compounds while complying with both the regulations as well as the industry demands for robustness and cost effectiveness. Following an introduction to the basic parameters and tests in pharmaceutical validation, including specificity, linearity, range, precision, accuracy, detection and quantitation limits, the text focuses on a life-cycle approach to validation and the integration of validation into the whole analytical quality assurance system. The whole is rounded off with a look at future trends. With its first-hand knowledge of the industry as well as regulating bodies, this is an invaluable reference for analytical chemists, the pharmaceutical industry, pharmaceutists, QA officers, and public authorities.

Clinical Toxicology Testing Stationery Office

Chiral Analysis covers an important area of analytical chemistry of relevance to a wide variety of scientific professionals. The target audience is scientific professionals with an undergraduate background in chemistry or a related discipline, specifically organic chemists, researchers in drug discovery, pharmaceutical researchers involved with process analysis or combinatorial libraries, and graduate students in chemistry. Chapters have been written with the nonspecialist in mind so as to be self-contained. * Broad coverage - spectroscopic and separation methods covered in a single volume * Up-to-date and detailed review of the various techniques available and/or under development in this field * Contributions from leading experts in the field

Essential Chemistry for Formulators of Semisolid and Liquid Dosages Academic Press

This book focuses on the polyolefin additives that are currently important in the plastics industry, alongside new additives of increasing interest, such as nanofillers and environmentally sustainable materials. As much as possible, each chapter emphasizes the performance of the additives in the polymer, and the value each relevant additive brings to polypropylene or polyethylene. Where possible, similar additives are compared by capability and relative cost. With major sections for each additive function, this book provides a highly practical guide for engineers and scientists creating and using polyolefin compounds, who will find in this book a wealth of detail and practical guidance. This unique resource will enable them to make practical decisions about the use of the various additives, fillers, and reinforcements specific to this family of materials. ABOUT THE AUTHOR Michael Tolinski is a freelance writer and a lecturer at the University of Michigan's College of Engineering. He is a frequent contributor to Plastics Engineering and Manufacturing Engineering. Structured to make it easy

for the reader to find solutions for specific property requirements Contains a number of short case studies about companies that have used or developed a particular additive to achieve a desired result Covers environmental resistance, mechanical property enhancement, appearance enhancement, processing aids, and other modifications of form and function