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pharmaceutical aerosol.

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IGOR GONDA, A semi?empirical model of aerosol deposition in the human respiratory tract for mouth inhalation, Journal of Pharmacy and Pharmacology, 10.1111/j.2042-7158.1981.tb13906.x, 33, 1, (692-696), (2011).

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Cary Mobley, Patricia Khan, Manish Issar, and Gu" nther Hochhaus, Pharmacokinetics and Pharmacodynamics of Drugs Delivered to the Lungs, Pharmaceutical Inhalation Aerosol Technology, Second Edition, 10.1201/9780203912898.ch7, (2003).

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Hickey A.J., Pharmaceutical inhalation aerosol powder dispersion—An unbalancing act, *American Pharmaceutical Review*, 6 (2003) 106–110. Hickey A.J., Summary of common approaches to pharmaceutical aerosol administration, in: *Pharmaceutical Inhalation Aerosol Technology*, second ed.,

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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.

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

*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

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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

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

Presenting authoritative and engaging articles on all aspects of drug development, dosage, manufacturing, and regulation, this Third Edition enables the pharmaceutical specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and constant companion for years to com

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.

*The Mechanics of Inhaled Pharmaceutical Aerosols: An Introduction, Second Edition* provides a concise, but thorough exposition of fundamental concepts in the field of pharmaceutical aerosols. This revised edition will allow researchers in the field to gain a thorough understanding of the field from first principles, allowing them to understand, design, develop and improve inhaled pharmaceutical aerosol devices and therapies. Chapters consider mechanics and deposition, specifically in the respiratory tract, while others discuss the mechanics associated with the three existing types of pharmaceutical inhalation devices. This text will be very useful for academics and for courses taught at both undergraduate and graduate levels. Because of the interdisciplinary nature of this book, it will also serve a wide audience that includes engineers and scientists involved with inhaled aerosol therapies. Provides a concise, but thorough exposition of fundamental concepts in the field of pharmaceutical aerosols Allows researchers in the field to gain an up-to-date, thorough understanding of the field from first principles Introduces the pharmaceutical aerosols field to the many engineers and scientists entering the area

This new edition brings you up-to-date on the role of pharmaceuticals and its future paradigms in the design of medicines. Contributions from over 30 international thought leaders cover the core disciplines of pharmaceuticals and the impact of biotechnology, gene therapy, and cell therapy on current findings. *Modern Pharmaceuticals* helps you stay current

*Colloid and Interface Science in Pharmaceutical Research and Development* describes the role of colloid and surface chemistry in the pharmaceutical sciences. It gives a detailed account of colloid theory, and explains physicochemical properties of the colloidal-pharmaceutical systems, and the methods for their measurement. The book starts with fundamentals in Part I, covering fundamental aspects of colloid and interface sciences as applied to pharmaceutical

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sciences and thus should be suitable for teaching. Parts II and III treat applications and measurements, and they explain the application of these properties and their influence and use for the development of new drugs. Provides a clear description of the fundamentals of colloid and interface science relevant to drug research and development Explains the physicochemical/colloidal basis of pharmaceutical science Lists modern experimental characterization techniques, provides analytical equations and explanations on analyzing the experimental data Describes the most advanced techniques, AFM (Atomic Force Microscopy), SFA (Surface Force Apparatus) in detail

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