Micromeritics In Physical Pharmacy

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Micromeritics In Physical Pharmacy ***2023-07-19***

AGUIRRE PORTER

Physical Pharmaceutics-II (English Edition) John Wiley & Sons
Compaction of powder constituents—both active ingredient and excipients—is examined to ensure consistent and reproducible disintegration and dispersion profiles. Revised to reflect modern pharmaceutical compacting techniques, this second edition of Pharmaceutical Powder Compaction Technology guides pharmaceutical engineers, formulation scientists, and product development and quality assurance personnel through the compaction formulation process and application. This unique reference covers: The physical structure of pharmaceutical compacts Bonding phenomena that occur during powder compaction Compression mechanisms of pharmaceutical particles Theories and basic principles of powder compaction New topics include: Compaction data analysis techniques The migration of powder constituents into commercial manufacture Instrumentation for compaction Compaction functionality testing, which is likely to become a USP requirement Design space for compaction Metrics required for scalability in tablet compression Interactive compaction and preformulation database for commonly used excipients
Physical Pharmaceutics Volume – II CRC Press
Topics 1. Introduction 2. Density Of Liquids 3. Molecular Weight 4. Conductivity 5. Adsorption 6. Partition Coefficient 7. Phase Rule 8. Interfacial Phenomenon 9. Micromeritics 10. Rheology 11. Colloids 12. Chemical Kinetics 13. Hydrophile - Lipophile Balance 14. Optical Activity 15. Solubility 16. Refractive Index 17. Significant Values Of Great Importance
Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems CRC Press
This book collects reviews and original articles from eminent experts working in the interdisciplinary arena of nanotechnology use in drug delivery. From their direct and recent experience, the readers can achieve a wide vision on the new and ongoing potentialities of nanotechnology application of drug delivery. Since 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. On the other hand, this reference discusses advances in design, optimization, and adaptation of gene delivery systems for the treatment of cancer, cardiovascular, pulmonary, genetic, and infectious diseases, and considers assessment and review procedures involved in the development of gene-based pharmaceuticals.
Pharmaceutical Pelletization Technology Nirali Prakashan
The growth of interest in newly developed porous materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. One might consider this new book as the 4th edition of "Powder Surface Area and Porosity" (Lowell & Shields), but for this new edition we set out to incorporate recent developments in the understanding of fluids in many types of porous materials, not just powders. Based on this, we felt that it would be prudent to change the title to "Characterization of Porous Solids and Powders: Surface Area, Porosity and Density". This book gives a unique overview of principles associated with the characterization of solids with regard to their surface area, pore size, pore volume and density. It covers methods based on gas adsorption (both physi and chemisorption), mercury porosimetry and pycnometry. Not only are the theoretical and experimental basics of these techniques presented in detail but also, in light of the tremendous progress made in recent years in materials science and nanotechnology, the most recent developments are described. In particular, the application of classical theories and methods for pore size analysis are contrasted with the most advanced microscopic theories based on statistical mechanics (e.g. Density Functional Theory and Molecular Simulation). The characterization of heterogeneous catalysts is more prominent than in earlier editions; the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded.
Pharmaceutical Dosage Forms and Drug Delivery Systems Pharmamed Press
It deals with the fundamental properties of drug substances such as solubility, stability, surface & interfacial phenomena, rheology, micromeritics, & complexation which will give a lead in formulating drug substances into suitable dosage forms.
Statistical Theory and Methodology in Science and Engineering AG PUBLISHING HOUSE (AGPH Books)
1 Surface and Interface phenomenon 2 Rheology 3 Chemical Kinetics and Stability 4 Micromeritics 5 Colloids
Pharmaceutical Crystals Springer Science & Business Media
Physical Pharmacy is one of the important subjects for pharmacy students. The book on Physical Pharmaceutics is written with an idea to provide the coverage of subject in the manner of five chapters and the first chapter covers the different topic related to solubility of drug such as: solubility expression, salvation, raoult’s law and solubility of liquid with other forms of matters and gives a basic understanding of the physical properties of drug or pharmaceuticals. On the other the second chapter is dedicated to the states of matters and the properties of matter such as latent heat, eutectic mixture, liquid complexes and different types of solid states The third chapter is dedicated to the Micromeritics covering the topic of particle size distribution, particle shape and specific surface and derived properties of powder. Similarly, the fourth chapter describes the complexation and protein biding in details and fifth chapter specially talks about the pH buffers and isotonic solutions making this book a one stop solution for the readers of pharmaceuticals, it also contains other important topics of physical pharmaceuticals. This book is written in such a manner that a beginner or an expert in this field will easily understand the topic described in it and will reach to it learning goal
Micromeritics CRC Press
With a shift toward problem-based learning and critical thinking in many health science fields, professional pharmacy training faces a shift in focus as well. Although the Accreditation Council for Pharmacy Education (ACPE) has recently suggested guidelines for problem solving to be better integrated into pharmacy curriculum, pharmacy books currently available either address

this material inadequately or lack it completely. Theory and Practice of Contemporary Pharmaceutics addresses this problem by challenging pharmacy students to think critically in preparation for situations that arise in clinical practice. This book offers a wealth of up-to-date information, organized in a logical sequence, corresponding to the art and science required for formulators in industry and dispensing pharmacists in the community. It breaks down the subject to its simplest form and includes numerous examples, case studies, and problems. In addition to presenting basic scientific principles, each chapter includes a self-evaluation tutorial designed to help you evaluate your understanding of the subject matter, numerical problems that provide practice in finding mathematical solutions, and case studies that measure your overall grasp of the subject matter by challenging you to craft a plausible solution to a real-life scenario using the concepts presented in that chapter. Written by authors selected from academia, industry, and regulatory agencies, the book presents an objective and balanced view of pharmaceutical science and its application. The authors' insights are extremely helpful to pharmacy students as well as practicing pharmacists involved in the development and/or dispensation of existing and new generation biotechnology-based drug products. This simplified and user-friendly book will present pharmaceutics in a way that it has never been presented before and will help prepare students and pharmacists for the competitive and challenging nature of the professional market.

Practical Physical Pharmacy Springer Nature

Introduction 2. Synthesis Of Some Official Medicinal Compounds 3. Assay Of Some Official Compounds 4. Monograph Analysis Of The Following Compounds 5. Identification And Estimation Of Drug Metabolites From Biological Fluids 6. Determination Of Partition Coefficient Of Compounds For Qsar Analysis 7. I.R. Spectra Of Some Official Medicinal Compounds

Physical Pharmaceutics Lippincott Williams & Wilkins

The rapid growth of interest in powders and their surface properties in many diverse industries prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. It is intended as an introduction to some of the elementary theory and experimental methods used to study the surface area, porosity and density of powders. It may be found useful by those with little or no training in solid surfaces who have the need to quickly learn the rudiments of surface area, density and pore-size measurements. Syosset, New York S. Lowell May, 1983 J. E. Shields Xl List of symbols Use of symbols for purposes other than those indicated in the following list are so defined in the text. Some symbols not shown in this list are defined in the text. d adsorbate cross-sectional area A area; condensation coefficient; collision frequency C BET constant c concentration D diameter; coefficient of thermal diffusion E adsorption potential f permeability aspect factor F flow rate; force; feed rate 9 gravitational constant G Gibbs free energy GS free surface energy h heat of immersion per unit area; height H enthalpy Hi heat of immersion Hsv heat of adsorption BET intercept; filament current k thermal conductivity; specific reaction rate K Harkins-Jura constant I length L heat of liquefaction M mass M molecular weight n number of moles N number of molecules; number of particles N Avagadro's number .

Physical Pharmaceutics -II AG PUBLISHING HOUSE (AGPH Books)

Consistently revised and updated for more than 60 years to reflect the most current research and practice, Martin’s Physical Pharmacy and Pharmaceutical Sciences, 8th Edition, is the original and most comprehensive text available on the physical, chemical, and biological principles that underlie pharmacology and the pharmaceutical sciences. An ideal resource for PharmD and pharmacy students worldwide, teachers, researchers, or industrial pharmaceutical scientists, this 8th Edition has been thoroughly revised, enhanced, and reorganized to provide readers with a clear, consistent learning experience that puts essential principles and concepts in a practical, approachable context. Updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full-color design makes it easier than ever to discover, distinguish, and understand information—providing users the most robust support available for applying the elements of biology, physics, and chemistry in work or study.

Theory and Practice of Contemporary Pharmaceutics AG PUBLISHING HOUSE (AGPH Books)

Buy E-Book of Physical Pharmaceutics-II (English Edition) Book For B.Pharm 4th Semester of U.P. State Universities

Theory and Practice of Contemporary Pharmaceutics LWW

Martin's Physical Pharmacy and Pharmaceutical Sciences is considered the most comprehensive text available on the application of the physical, chemical and biological principles in the pharmaceutical sciences. It helps students, teachers, researchers, and industrial pharmaceutical scientists use elements of biology, physics, and chemistry in their work and study. Since the first edition was published in 1960, the text has been and continues to be a required text for the core courses of Pharmaceutics, Drug Delivery, and Physical Pharmacy. The Sixth Edition features expanded content on drug delivery, solid oral dosage forms, pharmaceutical polymers and pharmaceutical biotechnology, and updated sections to cover advances in nanotechnology.

Physical Pharmaceutics - II Lippincott Williams & Wilkins

Crystallization is used at some stage in nearly all process industries as a method of production, purification or recovery of solid materials. In recent years, a number of new applications have also come to rely on crystallization processes such as the crystallization of nano and amorphous materials. The articles for this book have been contributed by the most respected researchers in this area and cover the frontier areas of research and developments in crystallization processes. Divided into five parts this book provides the latest research developments in many aspects of crystallization including: chiral crystallization, crystallization of nanomaterials and the crystallization of amorphous and glassy materials. This book is of interest to both fundamental research and also to practicing scientists and will prove invaluable to all chemical engineers and industrial chemists in the process industries as well as crystallization workers and students in industry and academia.

Practical Physical Pharmacy Academic Press

This book serves as a formulation and processing guide during the development of pelletized dosage forms. It provides the pharmaceutical technologist with basic information about the design aspects of the relevant processing equipment.

Physical Pharmaceutics Volume – I CRC Press

Consistently revised and updated for more than 60 years to reflect the most current research and practice, Martin's Physical Pharmacy and Pharmaceutical Sciences, 8th Edition, is the original and most comprehensive text available on the physical, chemical, and biological principles that underlie pharmacology and the pharmaceutical sciences. An ideal resource for PharmD and pharmacy students worldwide, teachers, researchers, or industrial pharmaceutical scientists, this 8th Edition has been thoroughly revised, enhanced, and reorganized to provide readers with a clear, consistent learning experience that puts essential principles and concepts in a practical, approachable context. Updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a

new full-color design makes it easier than ever to discover, distinguish, and understand information--providing users the most robust support available for applying the elements of biology, physics, and chemistry in work or study. NEW! Enhanced organization clarifies the clinical relevance of content throughout the text and makes learning more efficient for PharmD students. NEW! Full-color design emphasizes essential information and delivers an engaging learning experience. Revised content throughout, including areas such as Molecular Dispersions, Pharmaceutical Micromeritics, Formulation Engineering, Pharmaceutical Biotechnology, and more, provide further clarification and understanding. Abundant examples reinforce how physical chemical and biopharmaceutical principles apply to practice. Key Concept boxes keep students focused on the most important chapter content.

Advanced Pharmaceutical Solids BoD – Books on Demand

This fourth edition of Problem solving is concerned with the application of physical chemical principles to various aspects of pharmacy. Its purpose is to help students, teachers, researchers and manufacturing pharmacists to use the elements of mathematics, chemistry and physics in their work and study.

Martin's Physical Pharmacy and Pharmaceutical Sciences MDPI

Dosage Form Design Parameters, Volume I, examines the history and current state of the field within the pharmaceutical sciences, presenting key developments. Content includes drug development issues, the scale up of formulations, regulatory issues, intellectual property, solid state properties and polymorphism. Written by experts in the field, this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of dosage form design parameters. Chapters delve into a particular aspect of this fundamental field, covering principles, methodologies and the technologies employed by pharmaceutical scientists. In addition, the book contains a comprehensive examination suitable for researchers and advanced students working in pharmaceuticals, cosmetics, biotechnology and related industries. Examines the history and recent developments in drug dosage forms for pharmaceutical sciences Focuses on physicochemical aspects, prefomulation solid state properties and polymorphism Contains extensive references for further discovery and learning that are appropriate for advanced undergraduates, graduate students and those interested in drug dosage design

Problem Solving S. Chand Publishing

The crystalline state is the most commonly used essential solid active pharmaceutical ingredient (API). The characterization of pharmaceutical crystals encompasses many scientific disciplines, but the core is crystal structure analysis, which reveals the molecular structure of essential pharmaceutical compounds. Crystal structure analysis provides important structural information related to the API's wide range of physicochemical properties, such as solubility, stability, tablet performance, color, and hygroscopicity. This book entitled “Pharmaceutical Crystals" focuses on the relationship between crystal structure and physicochemical properties. In particular, the new crystal structure of pharmaceutical compounds involving multi-component crystals, such as co-crystals, salts, and hydrates, and polymorph crystals are reported. Such crystal structures were investigated in the latest studies that combined morphology, spectroscopic, theoretical calculation, and thermal analysis with crystallographic study. This book highlights the importance of crystal structure information in many areas of pharmaceutical science and presents current trends in the structure–property study of pharmaceutical crystals. The Guest Editors of this book hope the readers enjoy a wide variety of recent studies on Pharmaceutical Crystals.

Basic Physical Pharmacy Lippincott Williams & Wilkins

With a shift toward problem-based learning and critical thinking in many health science fields, professional pharmacy training faces a shift in focus as well. Although the Accreditation Council for Pharmacy Education (ACPE) has recently suggested guidelines for problem solving to be better integrated into pharmacy curriculum, pharmacy books currently available either address this material inadequately or lack it completely. Theory and Practice of Contemporary Pharmaceutics addresses this problem by challenging pharmacy students to think critically in preparation for situations that arise in clinical practice. This book offers a wealth of up-to-date information, organized in a logical sequence, corresponding to the art and science required for formulators in industry and dispensing pharmacists in the community. It breaks down the subject to its simplest form and includes numerous examples, case studies, and problems. In addition to presenting basic scientific principles, each chapter includes a self-evaluation tutorial designed to help you evaluate your understanding of the subject matter, numerical problems that provide practice in finding mathematical solutions, and case studies that measure your overall grasp of the subject matter by challenging you to craft a plausible solution to a real-life scenario using the concepts presented in that chapter. Written by authors selected from academia, industry, and regulatory agencies, the book presents an objective and balanced view of pharmaceutical science and its application. The authors' insights are extremely helpful to pharmacy students as well as practicing pharmacists involved in the development and/or dispensation of existing and new generation biotechnology-based drug products. This simplified and user-friendly book will present pharmaceutics in a way that it has never been presented before and will help prepare students and pharmacists for the competitive and challenging nature of the professional market.