




Introduction to Surface Area Analysis



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Introduction To Powder Surface Area

Seymour Lowell



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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 density and particle size of powders It may be found useful by those with little or no training in solid surfaces who have the need to learn quickly the rudiments of surface area density pore size and particle size measurements S Lowell J E Shields Symbols Use of symbols for purposes other than those indicated in the following table are so defined in the text Some symbols not shown in the table are also 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 permeability aspect factor f F flow rate force feed rate g gravitational constant G Gibbs free energy S G free surface energy h heat of immersion per unit area height H enthalpy heat of immersion H_i heat of adsorption H_{sv} BET intercept filament current k thermal conductivity specific reaction rate K Harkins Jura constant C length L heat of liquefaction M mass M molecular weight MPa megapascals number of moles n number of molecules number of particles N N Avogadro s num ber molecular collisions per square cm per second

Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density Seymour Lowell, Joan E. Shields, Martin A. Thomas, Matthias Thommes, 2006-04-24 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 the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded *Introduction to Powder Surface Area /s. Lowell S. Lowell,* Encyclopedia of Surface and Colloid Science - Arthur T. Hubbard, 2002-07-18 This comprehensive reference collects fundamental theories and recent research

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Pharmaceutical Manufacturing and Analytical Development Márcia Cristina Breitzkreitz, Hector Goicoechea, 2023-07-13 Written by twenty five authors from academia pharmaceutical industry and Pharmacopeias worldwide this monograph covers the fundamentals and applications of Quality by Design QbD and Analytical Quality by Design AQbD in a practical and didactic manner The book starts by describing the motivation and the urgent need for the implementation of the QbD framework in pharmaceutical development along with the definition of its major elements Quality Target Product Profile QTTP Critical Quality Attributes CQAs Critical Process Parameters CPPs Critical Material Attributes CMAs and the importance of using multivariate methods of Design of Experiments DOE The concept of life cycle and regulatory perspectives are discussed Three chapters are entirely dedicated to DOE theory from screening to optimization designs Moreover a comprehensive discussion on modelling and data treatment is presented Practical aspects of QbD and DOE for pharmaceutical product and process of different dosage forms is included as well as a practical guide of the input process variables material attributes intermediate and final quality attributes for the most representative pharmaceutical processes Analytical Quality by Design AQbD is also deeply explored including risk analysis definitions of Analytical Target Profile ATP Method Operable Design Region MODR and the life cycle approach taking into account the compendial and regulatory perspectives A detailed example of a new chromatographic method for the quality control of a pharmaceutical topical product based on the AQbD procedure is shown Finally advanced statistical approaches and DOE methods for extraction studies of bioactive compounds are also presented The vast amount of information offered in this book provides a comprehensive perspective on QbD AQbD and DOE principles essential tools for modern pharmaceutical and analytical development

Solid-State Properties of Pharmaceutical Materials Stephen R. Byrn, George Zografi, Xiaoming (Sean) Chen, 2017-07-12 Presents a detailed discussion of important solid state properties methods and applications of solid state analysis Illustrates the various phases or forms that solids can assume and discusses various issues related to the relative stability of solid forms and tendencies to undergo transformation Covers key methods of solid state analysis including X ray powder diffraction

thermal analysis microscopy spectroscopy and solid state NMR Reviews critical physical attributes of pharmaceutical materials mainly related to drug substances including particle size surface area hygroscopicity mechanical properties solubility and physical and chemical stability Showcases the application of solid state material science in rational selection of drug solid forms analysis of various solid forms within drug substance and the drug product and pharmaceutical product development Introduces appropriate manufacturing and control procedures using Quality by Design and other strategies that lead to safe and effective products with a minimum of resources and time

Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density S. Lowell, Joan E. Shields, Martin A. Thomas, Matthias Thommes, 2012-09-14

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 the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded

Handbook of Pharmaceutical Granulation Technology Dilip M. Parikh, 1997-06-17 Integrating the basic principles and industrial practices of pharmaceutical granulation production this book discusses technologies and demonstrates cost effective approaches to manufacturing solid dosage forms with content uniformity and consistent physical properties while complying with regulatory requirements Specialists from pharmaceutical companies academia and the U S Drug Regulatory Affairs agency address current and changing practices in industrial drug granulation production Text charts figures and photographs illustrate the pros and cons of diverse methods and technologies for accurately achieving strong bonding of particles in tablets and capsules

Application of Monte Carlo Simulation in Chemical Engineering Wahyudi Budi Sediawan, 2024-10-09 Quantitative analysis is an important tool in chemical engineering practice It underlies decision making processes equipment process design as well as the understanding of physical chemical phenomena that occur in chemical industries Among the foundation of quantitative analysis mathematics is very important The main obstacles in applying mathematical approach were due to the complexity of the analytical solution and to the large number of computation needed in the numerical solution However since the 1970s the availability of powerful and fast computational facilities makes the numerical solution more feasible Hence mathematical approach becomes more and more powerful and useful Even though mathematical approaches and calculations are becoming more powerful however due to the need of analysis of more complex phenomena the use of mathematical approaches based on calculus still has limitations The calculations involving very complicated mathematical equations and or very large number of computations are still not feasible Hence approximation method feasible to be applied to complex phenomena is useful One of the promising tools is monte carlo simulation Even though monte carlo simulation is merely an approximation not an exact solution but due to its simplicity it is very useful and powerful especially as the basis of engineering judgments as well as for better understanding The book discusses the applications of monte carlo simulation in chemical engineering cases Furthermore to show the

accuracies of the simulation comparison of the results with the ones obtained by other methods are also presented **Shock Waves in Condensed Matter - 1983** J.R. Asay, R.A. Graham, G.K. Struab, 2012-12-02 Shock Waves in Condensed Matter 1983 covers the proceedings of the American Physical Society Topical Conference held in Santa Fe New Mexico on July 18-21 1983. The book focuses on the response of matter to dynamic high pressure and temperature. The selection first elaborates on the review of theoretical calculations of phase transitions and comparisons with experimental results, theoretical and experimental studies of shock compressed benzene and polybutene, and theory of the iron equation of state and melting curve to very high pressures. The text then ponders on nonhydrostatic effects in stress wave induced phase transformation of calcite, Bauschinger effect, model suitable for use in large computer codes and strain rate sensitivity prediction for porous bed compaction. The manuscript takes a look at flaw nucleation and energetics of dynamic fragmentation, shock loading behavior of fused quartz and aluminum, damage simulation in high velocity impact, shock wave diagnostics by time resolved infrared radiometry and non linear Raman spectroscopy, Raman scattering temperature measurement behind a shock wave and experiments and simulation on laser driven shock wave evolution in aluminum targets are also discussed. The selection is a dependable reference for scientists and readers interested in the response of matter when exposed to dynamic high pressure and temperature. **Powder Surface Area and Porosity** Seymour Lowell, 2011-10-14 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 XI 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 g gravitational constant G Gibbs free energy G_S free surface energy h heat of immersion per unit area, height H enthalpy H_i heat of immersion H_{sv} heat of adsorption, BET intercept, filament current k thermal conductivity, specific reaction rate K Harkins-Jura constant l length L heat of liquefaction M mass, M molecular weight n number of moles N number of molecules, number of particles N_A Avogadro's number *Weathering* Will Bland, David Rolls, 2016-05-06 Our landscape is constantly changing but before the dramatic effects of erosion and mass movement take place, more subtle forces work on the rocks, minerals and soils around us. Weathering is the initial process which exposes the top few layers of the Earth to the potential for change. This book provides an introduction to the scientific principles behind mechanical, chemical and biological weathering. Starting with a consideration of the chemical and physical properties of rocks and water, the authors proceed to

an accessible explanation of the weathering processes themselves concluding with a review of weathering rates and intensities and a survey of the effects of weathering on the landscape Assuming little background knowledge the authors develop ideas from first principles to provide a straightforward introduction to weathering for students of geography geology and earth and environmental science Dispersions Erik Kissa, 2017-11-22 Explaining principles essential for the interpretation of data and understanding the real meaning of the result this work describes various methods and techniques used to characterize dispersions and measure their physical and chemical properties It describes a variety of dispersions containing particles ranging from submicron sizes to aggregates and from hard particles to polymer latices *24th Annual Conference of the German Crystallographic Society, March 14-17, 2016, Stuttgart, Germany* , 2016-03-07 Zeitschrift f r Kristallographie Supplement Volume 36 presents the complete Abstracts of all contributions to the 24th Annual Conference of the German Crystallographic Society in Stuttgart Germany 2016 Plenary Talks Microsymposia Poster Session Supplement Series of Zeitschrift f r Kristallographie publishes Abstracts of international conferences on the interdisciplinary field of crystallography

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