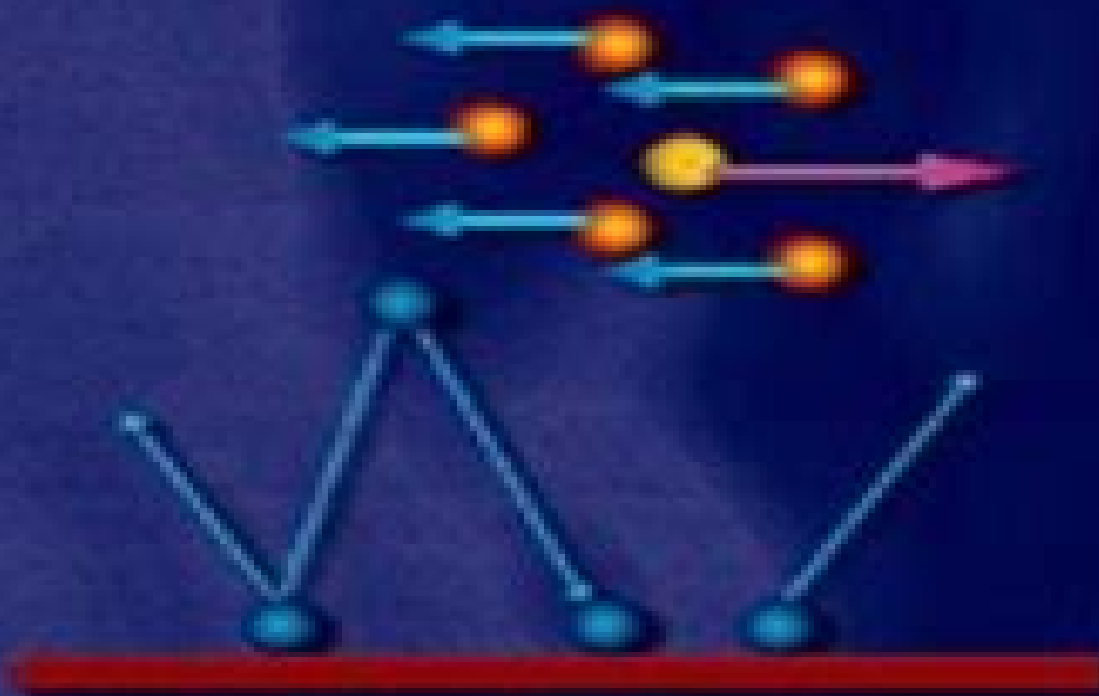


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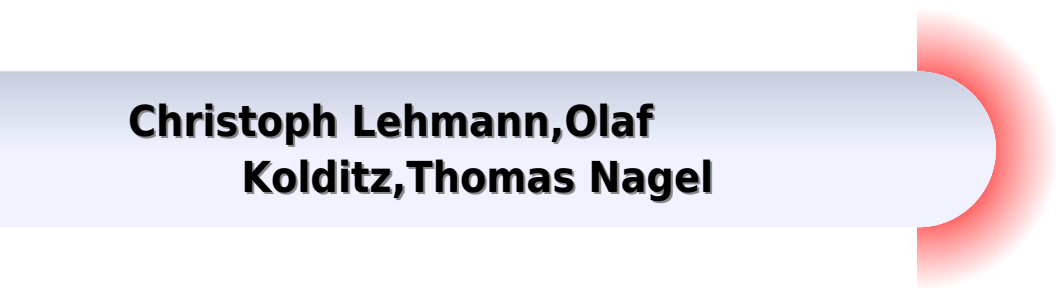
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Imperial College Press

Adsorption Analysis Equilibria And Kinetics Series On Chem Engineering

**Christoph Lehmann, Olaf
Kolditz, Thomas Nagel**



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Adsorption Analysis: Equilibria And Kinetics (With Cd Containing Computer Matlab Programs) Duong D Do, 1998-09-22 This book covers topics of equilibria and kinetics of adsorption in porous media Fundamental equilibria and kinetics are dealt with for homogeneous as well as heterogeneous particles Five chapters of the book deal with equilibria and eight chapters deal with kinetics Single component as well as multicomponent systems are discussed In kinetics analysis we deal with the various mass transport processes and their interactions inside a porous particle Conventional approaches as well as the new approach using Maxwell Stefan equations are presented Various methods to measure diffusivity such as the Differential Adsorption Bed DAB the time lag the diffusion cell chromatography and the batch adsorber methods are also covered by the book It can be used by lecturers and engineers who wish to carry out research in adsorption A number of programming codes written in MatLab language are included so that readers can use them directly to better understand the behavior of single and multicomponent adsorption systems

Environmental Engineering III Lucjan Pawlowski, Marzenna R. Dudzinska, Artur Pawlowski, 2010-03-23 Environmental engineering has a leading role in the elimination of ecological threats and can deal with a wide range of technical and technological problems due to its interdisciplinary character It uses the knowledge of the basic sciences biology chemistry biochemistry and physics to neutralize pollution in all the elements of the environment

Chitin and Chitosan Shameem Hasan, Veera M. Boddu, Dabir S. Viswanath, Tushar K. Ghosh, 2022-08-27 This book reviews work that covers everything from basic chemistry to advanced applications Chitin and chitosan are used in a plethora of applications from wastewater treatment to prosthetics After introducing the subject of polysaccharides as a whole the authors turn to the preparation of chitin and chitosan and the characterization of the latter The book provides information on chitin chemistry extraction of chitin chitosan preparation processes and the applications of their derivatives in various fields Among the applications that are included in detail are the adsorption of heavy metals for pollution prevention and clean up biosensors cosmetics various medical applications from anti tumor activity to bone tissue engineering agriculture and food production and proton exchange membranes for fuel cells Chitin and Chitosan features information on molecular structure synthesis properties and latest research related to chitin and chitosan coverage of a wide range of topics from the properties of chitosan to its derivatives and applications in depth information on biomedical applications of chitin and chitosan and information that can be applied to other biopolymer processing engineering areas This book will be of interest to practitioners working in a wide variety of industries for which chitin and chitosan are useful materials researchers in biosensors and heavy metal adsorption and to academic researchers investigating the properties preparation and uses of these materials

Models of Thermochemical Heat Storage Christoph Lehmann, Olaf Kolditz, Thomas Nagel, 2018-01-23 Thermochemical gas solid reactions as well as adsorption processes are currently of significant interest for the design of heat storage systems This book provides detailed models of these reactions

and processes that account for heat and mass transport chemical and physical reactions and possible local thermal non equilibrium The underlying scientific theory behind the models is explained laboratory tests are simulated and methods for high performance computing are discussed Applications ranging from seasonal domestic heat storage to diurnally operating systems in concentrating solar power facilities are considered in these models which are not available through any other sources Finally an outlook on future developments highlights emerging technologies

Structure Design and Degradation Mechanisms in Coastal Environments Abdelkarim Ait-Mokhtar, Olivier Millet, 2015-05-04 This book provides a series of designs materials characterization and modeling that will help create safer and stronger structures in coastal areas The authors take a look at the different materials porous heterogeneous concrete the moisture transfers in construction materials as well as the degradation caused by external attacks and put forth systems to monitor the structures or evaluate the performance reliability as well as degradation scenarios of coastal protection systems

Gas Adsorption in Metal-Organic Frameworks T. Grant Glover, Bin Mu, 2018-09-03 This text discusses the synthesis characterization and application of metal organic frameworks MOFs for the purpose of adsorbing gases It provides details on the fundamentals of thermodynamics mass transfer and diffusion that are commonly required when evaluating MOF materials for gas separation and storage applications and includes a discussion of molecular simulation tools needed to examine gas adsorption in MOFs Additionally the work presents techniques that can be used to characterize MOFs after gas adsorption has occurred and provides guidance on the water stability of these materials Lastly applications of MOFs are considered with a discussion of how to measure the gas storage capacity of MOFs a discussion of how to screen MOFs for filtration applications and a discussion of the use of MOFs to perform industrial separations such as olefin paraffin separations Throughout the work fundamental information such as a discussion on the calculation of MOF surface area and description of adsorption phenomena in packed beds is balanced with a discussion of the results from research literature

Batch Distillation: Design And Operation Iqbal M Mujtaba, 2004-03-29 The batch distillation process has existed for many centuries It is perhaps the oldest technology for separating or purifying liquid mixtures and is the most frequently used separation method in batch processes In the last 25 years with continuous development of faster computers and sophisticated numerical methods there have been many published works using detailed mathematical models with rigorous physical property calculations and advanced optimisation techniques to address several important issues such as selection of column configurations design operation off cut recycling use of batch distillation in reactive and extractive modes etc Batch Distillation Design and Operation presents excellent important contributions of many researchers from around the globe including those of the author and his co workers a

Moisture Storage and Transport in Concrete Lutz H. Franke, 2024-12-23 Comprehensive insight on moisture transport in cement based materials by means of experimental investigations and computer simulations Moisture Storage and Transport in Concrete explores how moisture moves through cementitious materials focusing on its

absorption storage and distribution with the help of experimental investigations and computer simulations The text discusses the different ways moisture moves such as through vapor or capillary action as well as how it affects the properties of cement based materials offering new insights and models to help understand and predict moisture behavior in these materials which can be important for construction and maintenance After a short introduction to the topic the text is split into five chapters Chapter 1 covers surface energetic principles for moisture storage in porous materials Chapter 2 explores real pore structure and calculation methods for composition parameters Chapter 3 explains basic equations for the description of moisture transport Chapter 4 discusses experimental investigation results with regard to the modeling of moisture transport in concrete materials Chapter 5 showcases modeling of moisture transport taking into account sorption hysteresis and time dependent material changes Written by a highly qualified author Moisture Storage and Transport in Concrete also includes discussion on Dependence of surface energy of water on temperature on relative humidity of air and for aqueous salt solutions Calculation of the pore size dependent distribution of inner surfaces using the moisture storage function Temperature influence on the capillary transport coefficients and differences between capillary pressure and hydraulic external pressure Adsorption and desorption isotherms of the CEMI reference material and causes of differences between adsorption and desorption isotherms Sorption isotherms and scanning isotherms of hardened cement paste and concrete Modeling of vapor transport and drying by evaporation of concrete Moisture Storage and Transport in Concrete is an essential reference to help researchers and professionals to make informed decisions for the construction of concrete based infrastructure enabling them to avoid common issues such as corrosion of reinforcement steel deterioration of concrete strength and the growth of mold and mildew

Current Developments in Biotechnology and Bioengineering Xuan-Thanh Bui,Dinh Duc Nguyen,Phuoc-Dan Nguyen,Huu Hao Ngo,Ashok Pandey,2022-08-19 Advances in Biological Wastewater Treatment Systems covers different recent advanced technologies including green technologies for biological wastewater treatment and wastewater reuse The technologies involve novel biological processes and or modified processes coupled with nano materials for improving the performance of the existing treatment processes The book also describes treatment strategies for the current pollution from complex organic matter nutrients toxic substances micro plastics and emerging micro pollutants in different water resources The treatment processes describe the recent developed technologies for wastewater treatment and reuse such as biological nutrient removal bioreactors photobioreactors membrane bioreactors wetlands algae bacteria process natural treatments integrated hybrid bio systems etc The novel bio systems include aerobic anaerobic facultative operation modes with various of types of microorganisms Provides updated information on biological nutrient removal from wastewater Includes anaerobic and aerobic wastewater treatment processes Provides state of art information on design and operation of novel systems including membrane bioreactors Describes hybrid treatment processes

Nanoporous Materials for Molecule Separation and Conversion Jian Liu, Frank Ding, 2020-07-04 Nanoporous

Materials for Molecule Separation and Conversion cover the topic with sections on nanoporous material synthesis and characterization nanoporous materials for molecule separation and nanoporous materials for energy storage and renewable energy Typical nanoporous materials including carbon zeolite silica and metal organic frameworks and their applications in molecule separation and energy related applications are covered In addition the fundamentals of molecule adsorption and molecule transport in nanoporous materials are also included providing readers with a stronger understanding of the principles and topics covered This is an important reference for anyone exploring nanoporous materials including researchers and postgraduate students in materials science and chemical engineering In addition it is ideal for industry professionals working on a wide range of applications for nanoporous materials Outlines the fundamental principles of nanoporous materials design Explores the application of nanoporous materials in important areas such as molecule separation and energy storage Gives real life examples of how nanoporous materials are used in a variety of industry sector

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