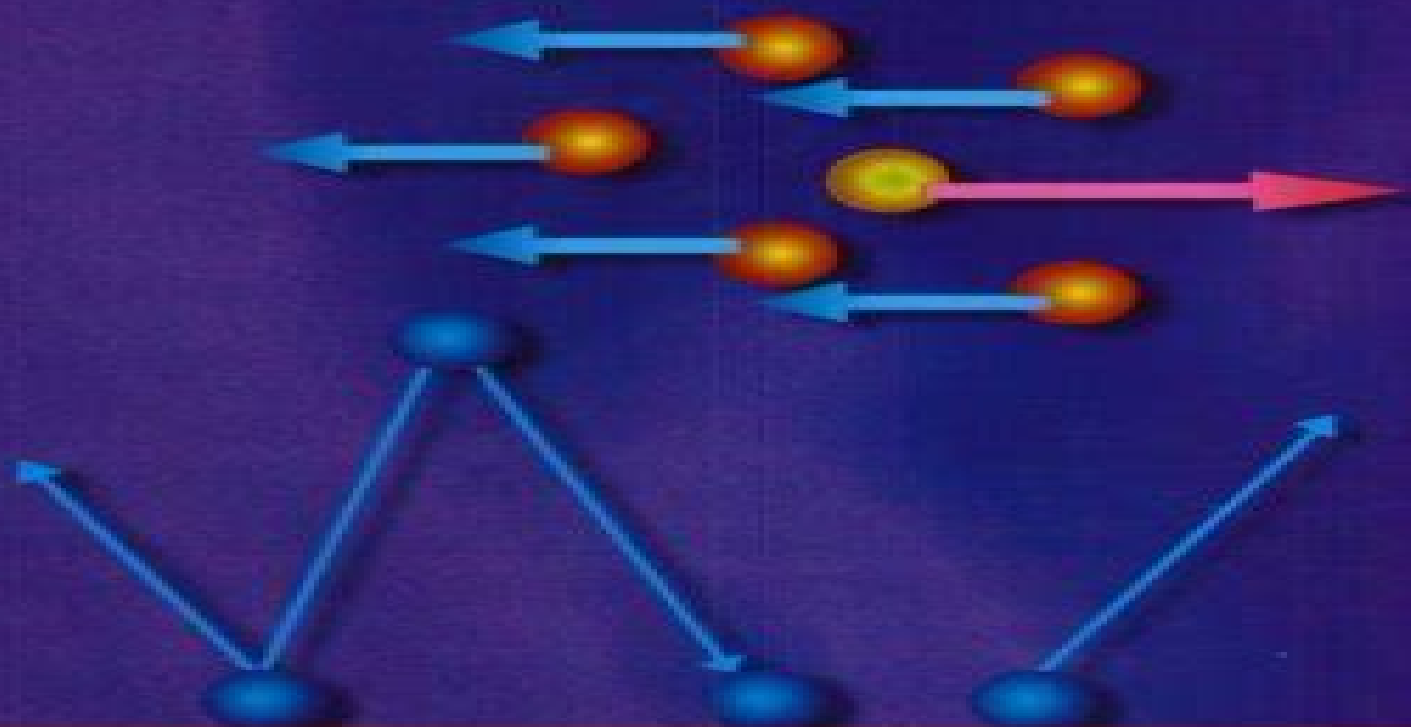


Adsorption Analysis: Equilibria and Kinetics

Duong D. Do



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Adsorption Analysis Equilibria And Kinetics Series On Chem Engineering

Abdelkarim Ait-Mokhtar, Olivier Millet



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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

Structure Design and Degradation Mechanisms in Coastal Environments Abdelkarim Ait-Mokhtar, Olivier Millet, 2015-06-15 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

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 *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 Mechanical and Solid-Fluid Operations Subrata Kumar Majumder, 2025-04-28 The text presents fundamental principles and analysis of the separation of particulate matter Analysis and reduction of air pollution involve a variety of technical disciplines The effective way to control air pollution is to prevent the release of pollutants at the source The treatment can involve intimately contacting the effluent gases with liquids or solids capable of selectively removing gaseous pollutants or in the case of particulate contaminants directing the effluent flow through a device in which the particles are captured on surfaces This book Introduces the principle of separation methods of particulate matter PM common control equipment of PM and collection or removal efficiency of the equipment Describes the concept of separation of particles by sieving screening the basic principles of screening equipment and the screen s effectiveness Present the fundamental theories of removing particulate and gaseous pollutants from effluent streams by pollution control operations such as gravitational gravity chambers and centrifugal deposition cyclone separator electrostatic precipitation filtration and wet scrubbing and covers fundamental principles of membrane separation membrane modules process design applications and governing equations of plate and frame filter press and rotary drum filter Deals with the basic understanding of reverse osmosis and its theoretical analysis by different total flux and capacity models and explains the basic understanding of adsorption onto the solid surface and their isotherm and kinetics Includes ancillary material such as numerical problems review questions multiple choice questions and exercises at the end of each chapter It is primarily written for senior undergraduates graduate students and academic researchers in chemical engineering mechanical engineering environmental engineering industrial engineering manufacturing engineering and chemistry

Characterization of Porous Solids VI, 2002-11-14 This book contains 99 of the papers that were presented at the 6th in the series of Symposia on Characterization of Porous Solids held in Alicante Spain May 2002 Written by leading international specialists in the subject the contributions represent an up to date and authoritative account of recent developments around the world in the major methods used to characterize porous solids The book is a useful work of reference for anyone interested in characterizing porous solids such as MCM 41 mesoporous materials pillared clays etc Papers on pore structure determination using gas adsorption feature strongly together with papers on small angle scattering

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