

Absorption Fundamentals And Applications

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Absorption Fundamentals And Applications Absorption Fundamentals And Applications Adsorbents : fundamentals and applications / Ralph T. Yang. p. cm. ISBN 0-471-29741-0 (cloth : acid-free paper) 1. Adsorption. I. Title. TP156.A35Y36 2003 660 .284235-dc21

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Thermodynamics: Fundamentals and Applications is a 2005 text for a first graduate course in Chemical Engineering. The focus is on macroscopic thermodynamics; discussions of modeling and molecular situations are integrated throughout.

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This review article presents the fundamental and practical aspects of water adsorption in Metal-Organic Frameworks (MOFs). The state of the art of MOF stability in water, a crucial issue to many applications in which MOFs are promising candidates, is discussed here. Stability in both gaseous (such as humid gases) and aqueous media is considered. By considering a non-exhaustive yet representative set of MOFs, the different mechanisms of water adsorption in this class of materials are ...

Water adsorption in MOFs: Fundamentals and applications ...

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Barbara is the author of three other books published by John Wiley and Sons, Ltd, namely Modern Infrared Spectroscopy and Biological Applications of Infrared Spectroscopy, both in the ACOL series of open learning texts, and Polymer Analysis in this current AntS series of texts.

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Absorption Fundamentals and Applications: Fundamentals and ...

This book gives a practical account of the modern theory of calculation of absorbers for binary and multicomponent physical absorption and absorption with simultaneous chemical reaction. The book consists of two parts: the theory of absorption and the calculation of absorbers. Part I covers basic knowledge on diffusion and the theory of mass transfer in binary and multicomponent systems. Significant stress is laid on diffusion theory because this forms the basis for the absorption process. In the next chapters the fundamentals of simultaneous mass transfer and chemical reaction, the theory of the desorption of gases from liquids and the formulation of differential mass balances are discussed. Part II is devoted to the calculation of absorbers and the classification of absorbers. The chapters present calculation methods for the basic types of absorber with a detailed analysis of the calculation methods for packed, plate and bubble columns. The authors illustrate the presented material with a large number of examples, starting with simple ones for binary systems and ending with column calculation for multicomponent systems.

Absorption Fundamentals and Applications: Fundamentals and ...

This book covers all major areas of interest in the rapidly expanding field of in vitro methods for percutaneous absorption studies. Specific areas discussed include diffusion cell design, receptor fluid, preparation of skin, and temperature. The book covers experimental methodology, as well as the underlying principles and fundamentals that help professionals and students gain an understanding of the basis for currently used methodology.

Absorption Fundamentals and Applications: Fundamentals and ...

In the last few decades, Spectroscopy and its application dramatically diverted science in the direction of brand new era. This book reports on recent progress in spectroscopic technologies, theory and applications of advanced spectroscopy. In this book, we (INTECH publisher, editor and authors) have invested a lot of effort to include 20 most advanced spectroscopy chapters. We would like to invite all spectroscopy scientists to read and share the knowledge and contents of this book. The textbook is written by international scientists with expertise in Chemistry, Biochemistry, Physics, Biology and Nanotechnology many of which are active in research. We hope that the textbook will enhance the knowledge of scientists in the complexities of some spectroscopic approaches; it will stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of chemistry, physics and material sciences.

Absorption Fundamentals and Applications: Fundamentals and ...

Provides an introduction to those needing to use infrared spectroscopy for the first time, explaining the fundamental aspects of this technique, how to obtain a spectrum and how to analyse infrared data covering a wide range of applications. Includes instrumental and sampling techniques Covers biological and industrial applications Includes suitable questions and problems in each chapter to assist in the analysis and interpretation of representative infrared spectra Part of the ANTS (Analytical Techniques in the Sciences) Series.

Absorption Fundamentals and Applications: Fundamentals and ...

The book discusses MOF synthesis and the state of MOF literature and provides guidance on how thermodynamics, mass transfer, packed-bed behavior, and water stability all contribute to gas phase separations and storage in MOFs. Several books on both MOFs and adsorption are available but a text that approaches MOF design, synthesis, and characterization with the intention of performing gas phase separations is absent. This text provides an introduction to MOF synthesis and characterization; adsorption theory including isotherms, mass transfer in porous solids, and fixed-bed wave theory; and discuss applications of MOF materials that illustrate these concepts--

Absorption Fundamentals and Applications: Fundamentals and ...

This book covers all major areas of interest in the rapidly expanding field of in vitro methods for percutaneous absorption studies. Specific areas discussed include diffusion cell design, receptor fluid, preparation of skin, and temperature. The book covers experimental methodology, as well as the underlying principles and fundamentals that help professionals and students gain an understanding of the basis for currently used methodology.

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Impinging streams is a unique and multipurpose configuration of a two-phase suspension for intensifying transfer processes in heterogeneous systems, viz. gas-solid, gas-liquid, solid-liquid and liquid-liquid. The essence of the method lies in the collision which results from bringing two streams of a suspension flowing on the same axis in opposite directions. Following the impact of the streams, a relatively narrow zone is created, which offers excellent conditions for enhancing the heat and mass transfer between the phases in the suspension. The following processes are considered in the light of the method of impinging streams: drying of particles, solid-solid and gas-gas mixing, absorption and desorption of gases from liquids, combustion of gas and coal, calcination of phosphate, creation of emulsions, liquid-liquid extraction, dissolution of solids, ion exchange, dust collection and granulation as well as evaporative cooling of air. Additional aspects considered in the book are: power input in performing the above processes, heat and mass transfer coefficient and its correlation, mixing properties of impinging stream reactors, residence time of the particles in the reactors, scale-up of impinging-stream reactors with respect to pressure, drop, hold-up and mean residence time of the particles as well as the heat transfer. The aim of the book is to review the state-of-the-art in the field of impinging streams, to present results of theoretical and experimental research, and to stimulate research and industrial application of the method so that reactors employing impinging streams will become a common tool in chemical engineering and other disciplines of engineering. The major conclusion of this work is that almost any process in chemical engineering can be conducted by impinging streams, resulting in higher efficiency and less power input in comparison with conventional methods.

Absorption Fundamentals and Applications: Fundamentals and ...

In the last few decades, Spectroscopy and its application dramatically diverted science in the direction of brand new era. This book reports on recent progress in spectroscopic technologies, theory and applications of advanced spectroscopy. In this book, we (INTECH publisher, editor and authors) have invested a lot of effort to include 20 most advanced spectroscopy chapters. We would like to invite all spectroscopy scientists to read and share the knowledge and contents of this book. The textbook is written by international scientists with expertise in Chemistry, Biochemistry, Physics, Biology and Nanotechnology many of which are active in research. We hope that the textbook will enhance the knowledge of scientists in the complexities of some spectroscopic approaches; it will stimulate both professionals and students to dedicate part of their future research in understanding relevant mechanisms and applications of chemistry, physics and material sciences.

Absorption Fundamentals and Applications: Fundamentals and ...

The original idea of IS is to send two solid-gas streams to impinge against each other at high velocity, enhancing transfer between phases. IS is classified into two kinds: Gas-continuous impinging streams (GIS) and Liquid-continuous ones (LIS). Impinging Streams describes fundamentals, major properties and application of IS, as a category of novel technologies in chemical engineering. Because of the universality of transfer phenomena, it is receiving widespread attention. This book represents the first book in this area for over 10 years and covers achievements and technologies. * describing clearly the properties of Gas-continuous and Liquid-continuous impinging streams * introducing new technical devices * includes a number of worked application cases, which are illustrated in detail

Absorption Fundamentals and Applications: Fundamentals and ...

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