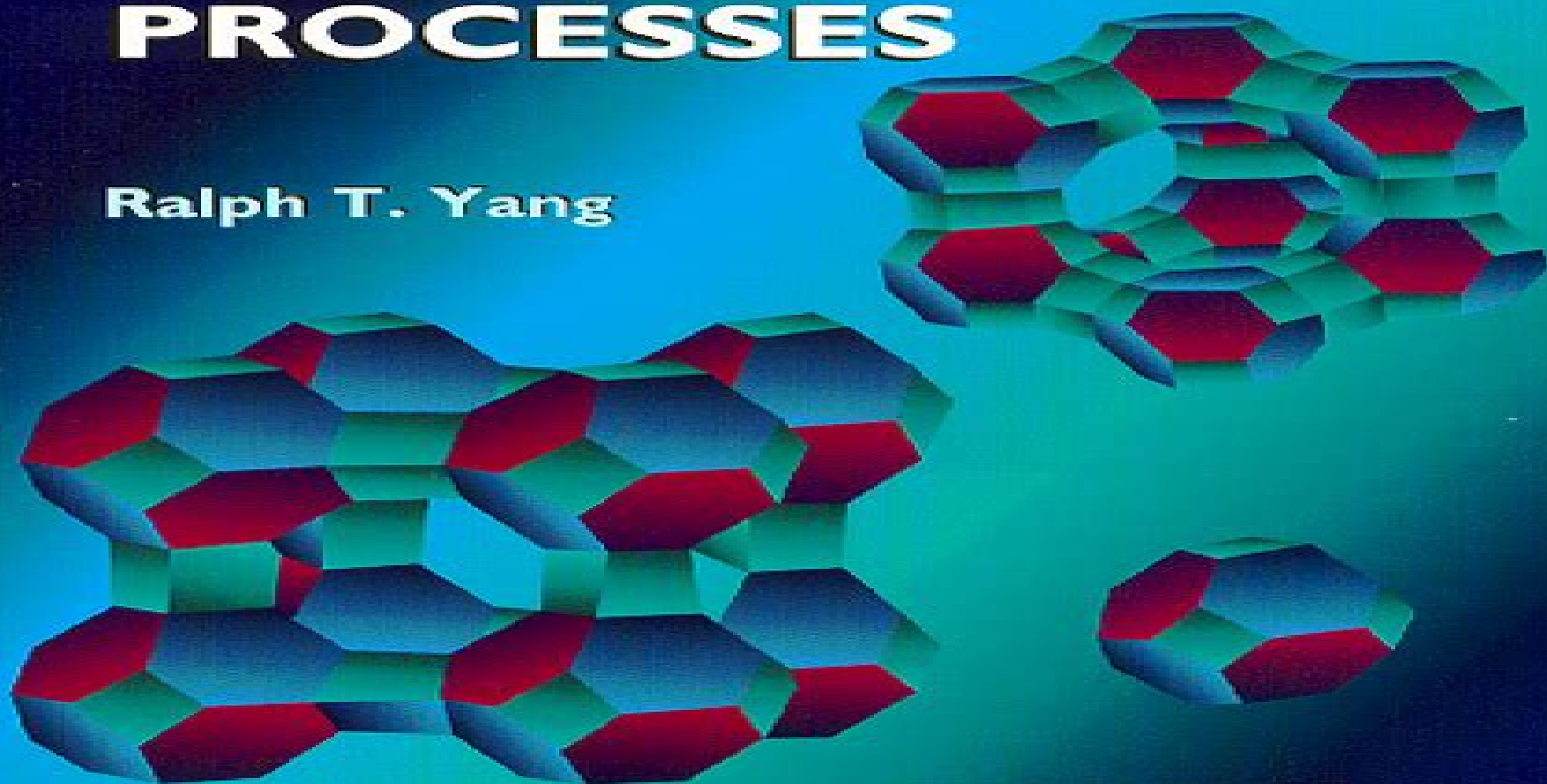


GAS SEPARATION BY ADSORPTION PROCESSES

Ralph T. Yang



Imperial College Press

Gas Separation By Adsorption Processes

Steve A. Rackley



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Gas Separation by Adsorption Processes R. T. Yang, 1987 **Gas Separation by Adsorption Processes** Ralph T. Yang, 1997 Gas Separation by Adsorption Processes is a complete treatise on all aspects of adsorptive processes It covers all fundamental principles as well as process design and simulation of gas adsorption processes for separation and purification This highly popular book in the field has now been reprinted and made available in paperback form Publisher's website

Adsorption Processes for Gas Separation GFPG, 1991 **Future Directions for the Application of Adsorption Processes in Gas Separation and Purification** Nicholas Hankins, Felix Jegede, American Institute of Chemical Engineers, 1999 Industrial Gas Handbook Frank G. Kerry, 2007-02-22 Drawing on Frank G Kerry's more than 60 years of experience as a practicing engineer the Industrial Gas Handbook Gas Separation and Purification provides from the trenches advice that helps practicing engineers master and advance in the field It offers detailed discussions and up to date approaches to process cycles for cryogenic separation of **Gas Adsorption Equilibria** Jürgen U. Keller, Reiner Staudt, 2005 This book is intended to present for the first time experimental methods to measure equilibria states of pure and mixed gases being adsorbed on the surface of solid materials It has been written for engineers and scientists from industry and academia who are interested in adsorption based gas separation processes and or in using gas adsorption for characterization of the porosity of solid materials Traditional and new measurement methods for gas adsorption equilibria are presented in Chaps 2-6 and elucidated by quite a number of experimental data sets most of them having been measured in the authors laboratories Special emphasis is given to uncertainties of data and pros and cons of all measurement methods are offered Also the basic concepts underlying interpretation of measurements and calculations of adsorbed masses from measurement signals are discussed in Chap 1 The authors state that in publishing this book they hope to contribute to the development of effective and reliable methods to measure pure gas and gas mixture adsorption equilibria preventing young and old experimenters from doing all the mistakes we have done during our laboratory work making experimental gas adsorption data measured today in many laboratories more easily comparable to each other as methods and procedures should become more and more similar and possibly also will be standardized IUPAC in the years to come Systematic Development of Adsorption Processes for the Separation of Close-boiling Gas Mixtures Abdulmalik Ajenifuja, 2020 Carbon Capture and Storage Steve A. Rackley, 2009-09-10 Carbon dioxide capture and storage CCS is a technology aimed at reducing greenhouse gas emissions from burning fossil fuels during industrial and energy related processes CCS involves the capture transport and long term storage of carbon dioxide usually in geological reservoirs deep underground that would otherwise be released to the atmosphere Carbon dioxide capture and storage offers important possibilities for making further use of fossil fuels more compatible with climate change mitigation policies The largest volumes of CO₂ could be captured from large point sources such as from power generation which alone accounts for about 40 per cent of total anthropogenic

CO₂ emissions The development of capture technologies in the power generation sector could be particularly important in view of the projected increase in demand for electricity in fast developing countries with enormous coal reserves IEA 2002a Although this prospect is promising more research is needed to overcome several hurdles such as important costs of capture technology and the match of large capture sources with adequate geological storage sites The book will provide a comprehensive detailed but non specialist overview of the wide range of technologies involved in carbon dioxide capture and sequestration Focuses on technology rather than regulation and cost Covers both traditional and cutting edge capture technology Contains an abundance of case studies and worked out examples Insight into CSS technical processes

Gas Separation by Adsorption in Order to Increase CO₂ Conversion to CO Via Reverse Water Gas Shift (RWGS)

Reaction Farhang Abdollahi, 2013 In this research project adsorption is considered in conjunction with the reverse water gas shift reaction in order to convert CO₂ to CO for synthetic fuel production If the CO₂ for this process can be captured from high emitting industries it can be a very good alternative for reduced fossil fuel consumption and GHG emission mitigation CO as an active gas could be used in Fischer Tropsch process to produce conventional fuels Literature review and process simulation were carried out in order to determine the best operating conditions for reverse water gas shift RWGS reaction Increasing CO₂ conversion to CO requires CO₂ CO separation downstream of the reactor and recycling unreacted CO₂ and H₂ back into the reactor Adsorption as a viable and cost effective process for gas separation was chosen for the CO₂ CO separation This was started by a series of adsorbent screening experiments to select the best adsorbent for the application Screening study was performed by comparing pure gas isotherms for CO₂ and CO at different temperatures and pressures Then experimental isotherm data were modeled by the Temperature Dependent Toth isotherm model which provided satisfactory fits for these isotherms Henry law's constant isosteric heat of adsorption and binary mixture prediction were determined as well as selectivity for each adsorbent Finally the expected working capacity was calculated in order to find the best candidate in terms of adsorption and desorption Zeolite NaY was selected as the best candidate for CO₂ CO separation in adsorption process for this project In the last step breakthrough experiments were performed to evaluate operating condition and adsorption capacity for real multi component mixture of CO₂ CO H₂ in both cases of saturated with water and dry gas basis In multi components experiments zeolite NaY has shown very good performance to separate CO₂ CO at low adsorption pressure and ambient temperature Also desorption experiment was carried out in order to evaluate the working capacity of the adsorbent for using in industrial scale and eventually temperature swing adsorption TSA process worked very well for the regeneration step Integrated adsorption system downstream of RWGS reactor can enhance the conversion of CO₂ to CO in this process significantly resulting to provide synthetic gas for synthetic fuel production as well as GHG emission mitigation

Zeolites in Industrial Separation and Catalysis Santi Kulprathipanja, 2010-01-26 This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three

capacities Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes The first part of the book discusses the history and chemistry of zeolites while the second section focuses on separation processes The third and final section treats zeolites in the field of catalysis The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent a membrane and as a catalyst while also discussing their impact within the industry

The Fundamentals of Process Intensification Andrzej Stankiewicz, Tom Van Gerven, Georgios Stefanidis, 2019-06-13 This advanced textbook covering the fundamentals and industry applications of process intensification PI discusses both the theoretical and conceptual basis of the discipline Since interdisciplinarity is a key feature of PI the material contained in the book reaches far beyond the classical area of chemical engineering Developments in other relevant disciplines such as chemistry catalysis energy technology applied physics electronics and materials science are extensively described and discussed while maintaining a chemical engineering perspective Divided into three major parts the first introduces the PI principles in detail and illustrates them using practical examples The second part is entirely devoted to fundamental approaches of PI in four domains spatial thermodynamic functional and temporal The third and final part explores the methodology for applying fundamental PI approaches in practice As well as detailing technologies the book focuses on safety energy and environmental issues giving guidance on how to incorporate PI in plant design and operation safely efficiently and effectively

Introduction to Computational Mass Transfer Kuo-Tsung Yu, Xigang Yuan, 2016-09-26 This book offers an easy to understand introduction to the computational mass transfer CMT method On the basis of the contents of the first edition this new edition is characterized by the following additional materials It describes the successful application of this method to the simulation of the mass transfer process in a fluidized bed as well as recent investigations and computing methods for predictions for the multi component mass transfer process It also demonstrates the general issues concerning computational methods for simulating the mass transfer of the rising bubble process This new edition has been reorganized by moving the preparatory materials for Computational Fluid Dynamics CFD and Computational Heat Transfer into appendices additions of new chapters and including three new appendices on respectively generalized representation of the two equation model for the CMT derivation of the equilibrium distribution function in the lattice Boltzmann method and derivation of the Navier Stokes equation using the lattice Boltzmann model This book is a valuable resource for researchers and graduate students in the fields of computational methodologies for the numerical simulation of fluid dynamics mass and or heat transfer involved in separation processes distillation absorption extraction adsorption etc chemical biochemical reactions and other related processes

Separation Process Engineering Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive

accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

Metal Organic Framework (MOFs) Pawan Kumar, Naresh Kumar, Deepak Kumar Aneja, 2024-11-01 This book presents the fundamental chemistry synthesis and classification of Metal Organic Framework MOFs for in catalysis applications As an introduction the role of theoretical catalytic degradation studies on MOFs is also covered The book includes all types of pollutants i.e pesticides plastics Polycyclic Aromatic Hydrocarbon compounds PAHs nitroaromatic compounds and emerging pollutants degradation studies using MOFs Finally the book discusses the challenges and future prospective for catalytic degradation using MOFs In the last decades significant attention has been drawn on catalysis applications of Metal Organic Framework MOFs It is due to the structural characteristics i.e coordination vacancies available in the metal nodes organocatalytic site of organic linkers and ligand to metal charge transfer features etc of MOFs Furthermore some excellent features including presence of pendent groups functionalization bio conjugation possibility optoelectronic properties as hosts and additional catalytic sites possibility via post synthetic modification of MOFs have made them potential materials for real world application

Journal of Separation Process Technology, 1988 **Journal of Applied Chemistry of the USSR**, 1980 **Chemical Engineering Progress**, 1995 **Optimization of Structured Adsorbents for Gas Separation Processes** Fateme Rezaei, 2011

Petroleum Abstracts, 1993 **Membrane Engineering for the Treatment of Gases** Enrico Drioli, Giuseppe Barbieri, 2011-07-06 Membranes already have important applications in artificial organs the processing of biotechnological

products food manufacture waste water treatment and seawater desalination Their uses in gaseous mixture separations are however far from achieving their full potential Separation of air components natural gas dehumidification and sweetening separation and recovery of CO₂ from biogas and H₂ from refinery gases are all examples of current industrial applications The use of membranes for reducing the greenhouse effect and improving energy efficiency has also been suggested New process intensification strategies in the petrochemical industry have opened up another growth area for gas separation membrane systems and membrane reactors This two volume set presents the state of the art in membrane engineering for the separation of gases It addresses future developments in carbon capture and utilization H₂ production and purification and O₂ N₂ separation Topics covered include the applications of membrane gas separation in the petrochemical industry implementation of membrane processes for post combustion capture commercial applications of membranes in gas separations simulation of membrane systems for CO₂ capture design and development of membrane reactors for industrial applications Pd based membranes in hydrogen production modelling and simulation of membrane reactors for hydrogen production and purification novel hybrid membrane pressure swing adsorption process for gas separation molecular dynamics as a new tool for membrane design and physical aging of membranes for gas separations Volume 1 focuses predominantly on problems relating to membranes

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Table of Contents Gas Separation By Adsorption Processes

1. Understanding the eBook Gas Separation By Adsorption Processes
 - The Rise of Digital Reading Gas Separation By Adsorption Processes
 - Advantages of eBooks Over Traditional Books
2. Identifying Gas Separation By Adsorption Processes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gas Separation By Adsorption Processes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gas Separation By Adsorption Processes
 - Personalized Recommendations
 - Gas Separation By Adsorption Processes User Reviews and Ratings
 - Gas Separation By Adsorption Processes and Bestseller Lists
5. Accessing Gas Separation By Adsorption Processes Free and Paid eBooks
 - Gas Separation By Adsorption Processes Public Domain eBooks
 - Gas Separation By Adsorption Processes eBook Subscription Services
 - Gas Separation By Adsorption Processes Budget-Friendly Options

6. Navigating Gas Separation By Adsorption Processes eBook Formats
 - ePub, PDF, MOBI, and More
 - Gas Separation By Adsorption Processes Compatibility with Devices
 - Gas Separation By Adsorption Processes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gas Separation By Adsorption Processes
 - Highlighting and Note-Taking Gas Separation By Adsorption Processes
 - Interactive Elements Gas Separation By Adsorption Processes
8. Staying Engaged with Gas Separation By Adsorption Processes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gas Separation By Adsorption Processes
9. Balancing eBooks and Physical Books Gas Separation By Adsorption Processes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gas Separation By Adsorption Processes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gas Separation By Adsorption Processes
 - Setting Reading Goals Gas Separation By Adsorption Processes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gas Separation By Adsorption Processes
 - Fact-Checking eBook Content of Gas Separation By Adsorption Processes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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