

# **GAS ADSORPTION EQUILIBRIA**

**Experimental Methods and  
Adsorption Isotherms**

Jürgen Keller  
Reiner Staudt

# Gas Adsorption Equilibria Experimental Methods And Adsorptive Isotherms

**Rolando M.A. Roque-Malherbe**



## **Gas Adsorption Equilibria Experimental Methods And Adsorptive Isotherms:**

Gas Adsorption Equilibria Jürgen U. Keller, Reiner Staudt, 2006-06-23 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. This book is the result of a fruitful collaboration of a theoretician JUK and an experimentalist RS over more than twelve years in the field of gas adsorption systems at the Institute of Fluid and Thermodynamics IFT at the University of Siegen Siegen Germany. This collaboration resulted in the development of several new methods to measure not only pure gas adsorption but gas mixture or coadsorption equilibria on inert porous solids. Also several new theoretical results could be achieved leading to new types of so called adsorption isotherms based on the concepts of molecular association and phenomenologically speaking on that of thermodynamic phases of fractal dimension. Naturally results of international collaboration of the authors over the years 1980-2000 also are included. **Gas Adsorption Equilibria** Jürgen U. Keller, 2005

Multi-Layer Composite (MLC) Membranes for Gas Separation Sarah Farrukh, Syed Shujaat Karim, Xianfeng Fan, Zhibin Yu, 2025-05-30 This book offers an in depth exploration of the fundamentals of multi layer composite MLC membranes for the gas separation applications. It provides a comprehensive overview of MLC membranes including their historical development, structural features, fabrication techniques, selection criteria, mathematical models for gas transport, gas separation mechanisms, characterization methods, detailed adsorption mechanisms, current challenges and future trends in gas separation technology. Serving as a valuable reference, this book is designed for materials scientists, environmental engineers and chemical engineers seeking fundamental insights into the effective utilization of MLC membranes for energy efficient gas separation processes.

*Carbon Nanomaterials for Gas Adsorption* Maria Letizia Terranova, Silvia Orlanducci, Marco Rossi, 2012-11-27 Research in adsorption of gases by carbon nanomaterials has experienced considerable growth in recent years with increasing interest for practical applications. Many research groups are now producing or using such materials for gas adsorption, storage, purification and sensing. This book provides a selected overview of some of the most interesting. *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

*Adsorption and Phase Behaviour in Nanochannels and Nanotubes* Lawrence J. Dunne, George Manos, 2009-09-24 Channels of nanotubular dimensions exist in a variety of materials examples are carbon nanotubes and the nanotubular channels of zeolites and zeotypes and show promise for numerous applications due to their unique properties One of their most important properties is their capacity to adsorb molecules and these may exist in a variety of phases Adsorption and Phase Behaviour in Nanochannels and Nanotubes provides an excellent review of recent and current work on adsorption on nanomaterials It is an impressive collection of papers dealing with the adsorption and phase behaviour in nanoporous materials from both experimental and theoretical perspectives Adsorption and Phase Behaviour in Nanochannels and Nanotubes focuses on carbon nanotubes as well as zeolites and related materials

**Development of Unconventional Reservoirs** Reza Rezaee, 2020-04-16 The need for energy is increasing and but the production from conventional reservoirs is declining quickly This requires an economically and technically feasible source of energy for the coming years Among some alternative future energy solutions the most reasonable source is from unconventional reservoirs As the name unconventional implies different and challenging approaches are required to characterize and develop these resources This Special Issue covers some of the technical challenges for developing unconventional energy sources from shale gas oil tight gas sand and coalbed methane

**Simulation-Assisted Design of Polycrystalline Zeolite Catalysts** Ding, Wenjin, 2016-11-09 Zeolite membranes have shown promising applications in catalytic and separation processes in chemical industry A simulation assisted design method based on experiments and simulations is shown to guide the development of hierarchically structured catalyst systems based on zeolite membranes by predicting the optimal catalyst structure A cornerstone of this method is a 3 D pore network model crystallite pore network model for simulation of diffusion and reaction in polycrystalline zeolites

*Applied Chemistry and Chemical Engineering, Volume 5* A. K. Haghi, Ana Cristina Faria Ribeiro, Lionello Pogliani, Devrim Balköse, Francisco Torrens, Omari V. Mukbaniani, 2017-12-22 This volume Applied Chemistry and Chemical Engineering Volume 5 Research Methodologies in Modern Chemistry and Applied Science is designed to fulfill the requirements of scientists and engineers who wish to be able to carry out experimental research in chemistry and applied science using modern methods Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications Thus readers will be able to apply the concepts as described in the book to their own experiments This book traces the progress made in this field and its sub fields and also highlight some of the key theories and their applications and will be a valuable resource for chemical engineers in Materials Science and others

**Classical Thermodynamics of Fluid Systems** Juan H. Vera, Grazyna Wilczek-Vera, 2016-11-25 This text explores the

connections between different thermodynamic subjects related to fluid systems Emphasis is placed on the clarification of concepts by returning to the conceptual foundation of thermodynamics and special effort is directed to the use of a simple nomenclature and algebra The book presents the structural elements of classical thermodynamics of fluid systems covers the treatment of mixtures and shows via examples and references both the usefulness and the limitations of classical thermodynamics for the treatment of practical problems related to fluid systems It also includes diverse selected topics of interest to researchers and advanced students and four practical appendices including an introduction to material balances and step by step procedures for using the Virial EOS and the PRSV EOS for fugacities and the ASOG KT group method for activity coefficients The Olivera Fuentes table of PRSV parameters for more than 800 chemical compounds and the Gmehling Tochigi tables of ASOG interaction parameters for 43 groups are included

*Molecularly Imprinted Polymers* Zeynep Altintas, 2024-11-06 This book provides an overview of the latest technology and advances in the field of molecularly imprinted polymers MIPs and their diverse applications in healthcare diagnostics food safety and quality as well as environmental monitoring Divided into 3 parts the book offers an introduction to the basics of molecular imprinting and affinity materials followed by an outline of the main sensor applications and the contribution of smart nanomaterials to molecular imprinting The last part of the book compares MIP based diagnostics technologies with antibody and aptamer based diagnostics and discusses existing and further commercial opportunities for MIPs Through this book readers will get a wide range of information from basics to advanced applications in the molecular imprinting area and discover the impact of integrated approaches such as computational studies and nanotechnology on the development of imprinting techniques for biotechnological applications covering healthcare environmental and food safety research With its rich content the book is a unique contribution to the field and it holds great potential to be a reference work not only for researchers working in the field but also for the researchers who plan to design collaborative research projects to contribute to their particular field e g medical scientists medical doctors agricultural or food engineers

*Nanotube Superfiber Materials* Mark Schulz, Vesselin Shanov, Zhangzhang Yin, Marc Cahay, 2019-03-12 Nanotube Superfiber Materials Science Manufacturing Commercialization Second Edition helps engineers and entrepreneurs understand the science behind the unique properties of nanotube fiber materials how to efficiently and safely produce them and how to transition them into commercial products Each chapter gives an account of the basic science manufacturing properties and commercial potential of a specific nanotube material form and its application New discoveries and technologies are explained along with experiences in handing off the improved materials to industry This book spans nano science nano manufacturing and the commercialization of nanotube superfiber materials As such it opens up the vast commercial potential of nanotube superfiber materials Applications for nanotube superfiber materials cut across most of the fields of engineering including spacecraft automobiles drones hyperloop tracks water and air filters infrastructure wind energy composites and medicine where nanotube materials enable development of tiny machines

that can work inside our bodies to diagnose and treat disease Provides up to date information on the applications of nanotube fiber materials Explores both the manufacturing and commercialization of nanotube superfibers Sets out the processes for producing macro scale materials from carbon nanotubes Describes the unique properties of these materials      *Separation Techniques in Analytical Chemistry* Rudolf Bock,Reinhard Nießner,2023-07-24 The separation of a mixture into its individual components is one of the most fundamental procedures in analytical and industrial chemistry This classic book in analytical chemistry provides a comprehensive yet systematic outline of all known separation methods Through its detailed treatment of the basic principles of separation possibilities it not only covers what is currently known but also represents a treasure trove of methods that are still awaiting further development It is clearly structured and contains interesting examples further reading and a detailed index An indispensable book for advanced students of natural sciences chemistry biochemistry food chemistry pharmacy clinical chemistry environmental sciences and technology chemical engineering chemical physical measurement biotechnology as well as teachers of these disciplines      Advances in Natural Gas: Formation, Processing, and Applications. Volume 2: Natural Gas Sweetening Mohammad Reza Rahimpour,Mohammad Amin Makarem,Maryam Meshksar,2024-02-10 *Advances in Natural Gas Formation Processing and Applications* is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 2 titled *Natural Gas Sweetening* introduces in detail different natural gas sweetening methods The book covers absorption with different solvents such as alkalis amin blends ionic liquids etc which is one of the important sweetening techniques as well as natural gas sweetening with adsorption based technologies utilizing various materials including zeolites carbonaceous sorbents metal oxides etc Is also discusses membrane based processes with various types such as ionic liquid polymeric MOF mixed matrix dense metal membranes and includes novel technologies for sweetening natural gas by using plasma and supersonic separators Introduces natural gas sweetening concepts and challenges Describes various absorption and adsorption processes for natural gas sweetening Includes various membrane technologies for natural gas sweetening

**Hydrogen Storage Materials** Darren P. Broom,2011-02-28 The problem of storing hydrogen safely and effectively is one of the major technological barriers currently preventing the widespread adoption of hydrogen as an energy carrier and the subsequent transition to a so called hydrogen economy Practical issues with the storage of hydrogen in both gas and liquid form appear to make reversible solid state hydrogen storage the most promising potential solution *Hydrogen Storage Materials* addresses the characterisation of the hydrogen storage properties of the materials that are currently being considered for this purpose The background to the topic is introduced along with the various types of materials that are currently under investigation including nanostructured interstitial and complex hydrides and porous materials such as metal

organic frameworks and microporous organic polymers The main features of Hydrogen Storage Materials include an overview of the different types of hydrogen storage materials and the properties that are of interest for their practical use descriptions of the gas sorption measurement methods used to determine these properties and the complementary techniques that can be used to help corroborate hydrogen uptake data and extensive coverage of the practical considerations for accurate hydrogen sorption measurement that drive both instrument design and the development of experimental methodology Hydrogen Storage Materials provides an up to date overview of the topic for experienced researchers while including enough introductory material to serve as a useful practical introduction for newcomers to the field

*Adsorption and Diffusion in Nanoporous Materials* Rolando M.A. Roque-Malherbe, 2018-02-12 Offering a materials science point of view the author covers the theory and practice of adsorption and diffusion applied to gases in microporous crystalline mesoporous ordered and micro mesoporous amorphous materials Examples used include microporous and mesoporous molecular sieves amorphous silica and alumina and active carbons akaganeites prussian blue analogues metal organic frameworks and covalent organic frameworks The use of single component adsorption diffusion in the characterization of the adsorbent surface pore volume pore size distribution and the study of the parameters characterizing single component transport processes in porous materials are detailed

Metal-Organic Frameworks Jianwen Jiang, 2015-01-28 Metal organic frameworks MOFs have emerged as a new family of nanoporous materials With an enormous choice of inorganic organic building blocks MOFs possess a wide range of surface area pore size and functionality and thus have been considered versatile materials for many potential applications This book presents a broad collection of recent research

Unconventional Hydrocarbon Resources Reza Barati, Mustafa M. Alhubail, 2020-11-11 A comprehensive textbook presenting techniques for the analysis and characterization of shale plays Significant reserves of hydrocarbons cannot be extracted using conventional methods Improvements in techniques such as horizontal drilling and hydraulic fracturing have increased access to unconventional hydrocarbon resources ushering in the shale boom and disrupting the energy sector Unconventional Hydrocarbon Resources Techniques for Reservoir Engineering Analysis covers the geochemistry petrophysics geomechanics and economics of unconventional shale oil plays The text uses a step by step approach to demonstrate industry standard workflows for calculating resource volume and optimizing the extraction process Volume highlights include Methods for rock and fluid characterization of unconventional shale plays A workflow for analyzing wells with stimulated reservoir volume regions An unconventional approach to understanding of fluid flow through porous media A comprehensive summary of discoveries of massive shale resources worldwide Data from Eagle Ford Woodford Wolfcamp and The Bakken shale plays Examples homework assignments projects and access to supplementary online resources Hands on teaching materials for use in petroleum engineering software applications The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers

students and professionals      **Fundamentals of Gas Shale Reservoirs** Reza Rezaee, 2015-07-27 Provides comprehensive information about the key exploration development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis rock physics geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations      **Ceramic Hydrogen Storage Materials** Navid Hosseinabadi, 2025-03-31 Ceramic Hydrogen Storage Materials presents the physical chemical physico chemical properties of ceramics as hydrogen storage materials It demonstrates how ceramic nanostructures can be specifically designed for high surface adsorption of hydrogen and can function as hydrogen batteries Covering methods for characterizing hydrogen storage capacity this book showcases how hydrogen has the potential to facilitate decarbonization of the electric power sector by storing energy produced from renewable sources It addresses both ceramic oxides and non oxides while expanding on the synthesis and characterization of zero and one dimensional high surface area ceramic structures This book discusses the applications of hydrogen batteries in zero emission vehicles and hydrogen fuels for aircraft This book will interest upper level undergraduate energy and materials engineering students as well as researchers studying green energy storage materials hydrogen storage and alternative transportation fuels

## Whispering the Secrets of Language: An Psychological Journey through **Gas Adsorption Equilibria Experimental Methods And Adsorptive Isotherms**

In a digitally-driven earth wherever screens reign great and instant communication drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within words frequently get unheard. However, nestled within the pages of **Gas Adsorption Equilibria Experimental Methods And Adsorptive Isotherms** a interesting fictional treasure pulsating with organic thoughts, lies an exceptional quest waiting to be undertaken. Published by a talented wordsmith, this wonderful opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within ab muscles fabric of each and every word. Within the mental depths of the touching evaluation, we will embark upon a sincere exploration of the book is primary styles, dissect its fascinating publishing fashion, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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