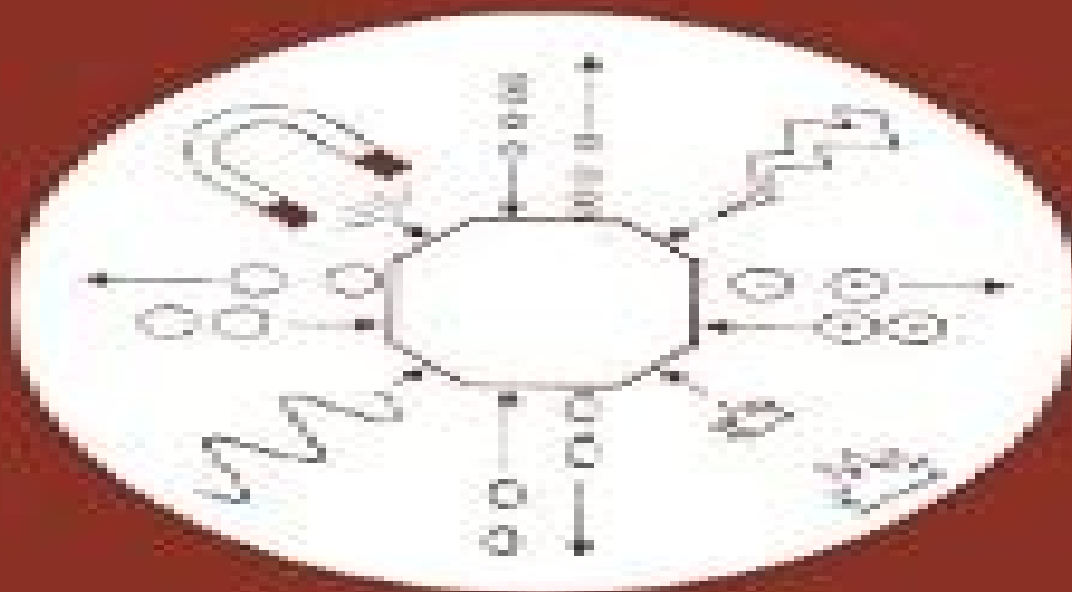


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SPILLOVER AND MOBILITY OF SPECIES ON SOLID SURFACES

**A. Guerrero-Ruiz
I. Rodríguez-Ramos
(editors)**



elsevier

Spillover And Mobility Of Species On Solid Surfaces

A. Guerrero-Ruiz, I. Rodriguez-Ramos



Spillover And Mobility Of Species On Solid Surfaces:

Spillover and Mobility of Species on Solid Surfaces A. Guerrero-Ruiz, I. Rodriguez-Ramos, 2001-08-02 Spillover and Mobility of Species and Solid Surfaces collects the papers which were presented at the Fifth International Conference Spillover either as oral or poster contributions as well as the summaries of the invited lectures This congress and its publication in the Studies on Surface Science and Catalysis series follow the tradition of previous conferences on spillover initiated in Lyon 1983 and continued in Leipzig 1989 Kyoto 1993 and Dalian 1997 For the fifth conference held in S L el Escorial Madrid the organising committee has attempted to compile representative contributions which illustrate the advances in understanding the spillover phenomenon since 1997 Spillover is a process taking place during the interface of gas reactant molecules mainly hydrogen and oxygen on solid surfaces However different contributions to the more general area of the chemistry at surfaces related with the mobility and migration of species diffusion through membranes fuel cell catalysts etc have also been included In fact the title of the present volume summarizes this attempt to extend the conference topics towards dynamics at surfaces Among the 70 contributions received the 56 accepted papers were selected on the basis of the reports of at least two international reviewers according to standards comparable to those applied for other specialised journals These papers are from 21 different countries

Characterization of Porous Solids VII Philip Llewellyn, Francisco Rodríguez Reinoso, Jean Rouquerol, Nigel Seaton, 2006-08-07 The 7th International Symposium on the Characterization of Porous Solids COPS VII was held in the Congress Centre in Aix en Provence between the 25th 28th May 2005 The symposium covered recent results of fundamental and applied research on the characterization of porous solids Papers relating to characterization methods such as gas adsorption and liquid porosimetry X ray techniques and microscopic measurements as well as the corresponding molecular modelling methods were given These characterization methods were shown to be applied to all types of porous solids such as clays carbons ordered mesoporous materials porous glasses oxides zeolites and metal organic frameworks 36 oral presentations and 166 posters and around 230 guests from 27 countries A large part of this symposium was devoted to the use computational methods to characterise porous solids

Biocatalysis in Oil Refining, 2011-09-22 Biocatalysis in Oil Refining focuses on petroleum refining bioprocesses establishing a connection between science and technology The micro organisms and biomolecules examined for biocatalytic purposes for oil refining processes are thoroughly detailed Terminology used by biologists chemists and engineers is brought into a common language aiding the understanding of complex biological chemical engineering issues Problems to be addressed by the future R D activities and by new technologies are described and summarized in the last chapter Updated references Studying bioprocessing problems looking at opportunities for improvements and technology developments

Introduction to Zeolite Molecular Sieves Jiri Cejka, Herman van Bekkum, A. Corma, F. Schueth, 2007-10-02 Introduction to Zeolite Molecular Sieves 3rd Edition presents a collection of the most important results and ideas in the field of molecular sieve chemistry and

technology the most important experimental techniques related to the research activities in molecular sieves and identifies new areas of molecular sieve chemistry Chapters start at a reasonably simple entry level but also covers the present state of the art in the field Topics covered include structure synthesis characterization ion exchange adsorption diffusion separations and natural zeolites 6 years since the last edition this book brings together the rapid development within the field of molecular sieve chemistry and applications Accessible to newcomers to the field also containing valuable information for experienced researchers 27 chapters written by renowned scientists in their field including updates on some 2nd edition chapters

Fluid Catalytic Cracking VII: ,2011-09-22 Since 1987 the Petroleum Division of the American Chemical Society ACS has sponsored at 3 year intervals an international symposium on fluid cracking catalysts FCC technology This volume collects the recent progress of this technology as reported in the papers presented during the 232th National Meeting of the ACS in San Francisco September 10 14 2006 Sixty six years after the introduction of the fluid cracking catalyst process it remains the main process of gasoline generation for the estimated 237 millions cars on US roads Catalysts testing and evaluation still remains a subject of interest debate and controversy Lambda sweep testing testing of SO_x NO_x and combustion promoters have been discussed in details together with catalyst evaluation for atmospheric residues and metal contaminated oils cracking Of particular interest has been the introduction of novel concept in process design aimed at improving cracked product selectivity such as two stage risers for better gasoline and olefins production and downer technology for high severity processes The importance of solid state nuclear magnetic resonance NMR in the study of crude oils catalysts and reaction products are illustrated by several examples Two contributions describe the use of predictive methods to understand FCC aging and deactivation and personal overviews of the development of SO_x and combustion promoters technology are presented Presents findings from the tri annual international symposium on fluid cracking catalysts FCC technology sponsored by the Petroleum Division of the American Chemical Society ACS Two contributions describe the use of predictive methods to understand FCC aging and deactivation Personal overviews by the authors of the development of SO_x and combustion promoters technology

Natural Gas Conversion VIII Fabio Bellot Noronha, Martin Schmal, Eduardo Falabella Sousa-Aguiar, 2011-09-22 This volume contains peer reviewed manuscripts describing the scientific and technological advances presented at the 8th Natural gas Conversion Symposium held in Natal Brazil May 27 31 2007 This symposium continues the tradition of excellence and the status as the premier technical meeting in this area established by previous meetings The manuscripts have been divided into eight different topics Industrial Processes Economics Technology Demonstration and Commercial Activities Production of Hydrogen from Methane Methanol and Other Sources Production of Synthesis Fischer Tropsch Synthesis of Hydrocarbons From Synthesis Gas to Catalytic Combustion From Natural Gas to Chemicals Light Hydrocarbons and Production and Conversion These are the most interesting subjects in the utilization of natural gas with recent scientific innovation and technological advances The book is of interest to all

students and researchers active in utilization of natural gas Research comes from the most important industries and research centres in the field Features new studies from all around the world Important for consulting and updating research and development data

Alkene Polymerization Reactions with Transition Metal Catalysts Yury Kissin, 2008-03-10 During the past 30 years the field of alkene polymerization over transition metal catalysts underwent several major changes 1 The list of commercial heterogeneous Ziegler Natta catalysts for the synthesis of polyethylene and stereoregular polyolefins was completely renewed affording an unprecedented degree of control over the polymer structure 2 Research devoted to metallocene and other soluble transition metal catalysis has vastly expanded and has shifted toward complexes of transition metals with multidentate ligands 3 Recent developments in gel permeation chromatography temperature rising fractionation and crystallization fractionation provided the first reliable information about differences between various active centers in transition metal catalysts 4 A rapid development of high resolution ^{13}C NMR spectroscopy resulted in greatly expanded understanding of the chemical and steric features of polyolefins and alkene copolymers These developments require a new review of all aspects of alkene polymerization reactions with transition metal catalysts The first chapter in the book is an introductory text for researchers who are entering the field It describes the basic principles of polymerization reactions with transition metal catalysts the types of catalysts and commercially manufactured polyolefins The next chapter addresses the principal issue of alkene polymerization catalysis the existence of catalyst systems with single and multiple types of active centers The subsequent chapters are devoted to chemistry and stereochemistry of elemental reaction steps structures of catalyst precursors and reactions leading to the formation of active centers kinetics of polymerization reactions and their mechanisms The book describes the latest commercial polymerization catalysts for the synthesis of polyethylenes and polypropylene The book provides a detailed description of the multi center nature of commercial Ziegler Natta catalysts The book devotes specialized chapters to the most important aspects of transition metal polymerization catalysts the reactions leading to the formation of active centers the chemistry and stereochemistry of elemental polymerization steps reaction kinetics and the polymerization mechanism The book contains an introductory chapter for researchers who are entering the field of polymerization catalysis It describes the basic principles of polymerization reactions with transition metal catalysts and the types of commercially manufactured polyolefins and copolymers The book contains over 2000 references the most recent up to end of 2006

Fischer-Tropsch Technology André Steynberg, Mark Dry, 2004-10-30 Fischer Tropsch Technology is a unique book for its state of the art approach to Fischer Tropsch FT technology This book provides an explanation of the basic principles and terminology that are required to understand the application of FT technology It also contains comprehensive references to patents and previous publications As the first publication to focus on theory and application it is a contemporary reference source for students studying chemistry and chemical engineering Researchers and engineers active in the development of FT technology will also find this book an invaluable source of information Is the first

publication to cover the theory and application for modern Fischer Tropsch technology Contains comprehensive knowledge on all aspects relevant to the application of Fischer Tropsch technology No other publication looks at past present and future applications Carbon Dioxide Utilization for Global Sustainability Sang-Eon Park,Jong-San Chang,Kyu-Wan Lee,2004-10-27

Addressing global environmental problems such as global warming is essential to global sustainability Continued research leads to advancement in standard methods and produces new data Carbon Dioxide Utilization for Global Sustainability Proceedings of the 7th ICCDU International Conference on Carbon Dioxide Utilization reflects the most recent research results as well as stimulating scientific discussions with new challenges in advancing the development of carbon dioxide utilization Drawing on a wealth of information this well structured book will benefit students researchers and consultants looking to catch up on current developments in environmental and chemical engineering Provides comprehensive data on CO₂ utilisation Contains up to date information including recent research trends Is written for students researchers and consultants in environmental and chemical engineering **Coal and Coal-Related Compounds** Toshiaki Kabe,Atsushi Ishihara,Eika Weihua Qian,I. Putu Sutrisna,Yaeko Kabe,2004-11-18 Coal is more abundant than petroleum and natural gas Further coal is not localized but can be used by many more countries than petroleum Therefore if we can establish coal utilization technology coal will bring about a great contribution to human life and society On the other hand shortage of petroleum and natural gas are anticipated in the second half of the 21st century To compensate the use of coal is expected to gradually increase during the 21st century In the future the development of the coal utilization technology will become more and more important to insure the supply of liquid fuels for transportation and carbon sources for the manufacture of chemicals and plastic materials In order to develop such technologies the elucidation of the structure of coal is a fundamental area of study Further more efficient coal utilization technology must be established to meet environmental legislation One of the key technologies for this purpose is catalysis This volume provides detail of the basic and practical aspects of the science and technology of coal utilization with and without catalysts The actual structure of coal the chemistry included in the reactivity of coal the methods to elucidate the structure of coal and reaction mechanisms of coal conversion the most important catalyst for converting coal to liquid and gas the role of the catalysts in coal conversion the problems in the process engineering and how to meet environmental regulations are discussed in detail The recent progress in studies on the structure and reactivity of coal made over the last century is summarized and reviewed with emphasis on both fundamental and applied aspects of the science and technology for coal processing in the presence and absence of catalysts This book highlights the issues faced in trying to discover more efficient coal utilization technology Provides detailed discussion on how to meet environmental regulations and legislation Fills the gap between both the scientific and practical sides of coal utilization with and without catalysts

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