



Solid Surfaces Proc Of The International

W.A. Steele, G. Zgrablich, W. Rudzinski



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Physics of Solid Surfaces 1981: Symposium Proceedings (Studies in Surface Science and Catalysis) ,2000-04-01
Physics of Solid Surfaces 1981 Symposium Proceedings Studies in Surface Science and Catalysis *Photochemistry on Solid Surfaces* Takeshi Matsuura,M. Anpo,1989-06-01 The latest developments in photochemistry on solid surfaces i e photochemistry in heterogeneous systems including liquid crystallines are brought together for the first time in a single volume Distinguished photochemists from various fields have contributed to the book which covers a number of important applications molecular photo devices for super memory photochemical vapor deposition to produce thin layered electronic semiconducting materials sensitive optical media the control of photochemical reactions pathways etc Photochemistry on solid surfaces is now a major field and this book which provides an up to date and comprehensive overview of the subject will be of interest to a wide range of readers

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

Equilibria and Dynamics of Gas Adsorption on Heterogeneous Solid Surfaces W.A. Steele,G. Zgrablich,W. Rudzinski,1996-12-17 The fact that the surfaces of real solids are geometrically distorted and chemically non uniform has long been realized by the scientists investigating various phenomena occurring on solid surfaces Even in the case when diffraction experiments show a well organized bulk solid structure the surface atoms or molecules will usually exhibit a much smaller degree of surface organization In addition to the results obtained from electron diffraction this can be seen in the impressive images obtained from STM and AFM microscopies This geometric and chemical disorder is the source of the energetic heterogeneity for molecules adsorbing on real solid surfaces Hundreds of papers have been published showing that this heterogeneity is a major factor in determining the behaviour of real adsorption systems Studies of adsorption on

energetically heterogeneous surfaces have proceeded along three somewhat separate paths with only minor coupling of ideas. One was the study of adsorption equilibria on heterogeneous solid surfaces. The second path was the study of time evolution of adsorption processes such as surface diffusion or adsorption-desorption kinetics on heterogeneous surfaces and the third was the study of adsorption in porous solids or more generally adsorption in systems with limited dimensions. The present monograph is a first attempt to provide a synthesis of the ways that surface geometric and energetic heterogeneities affect both the equilibria and the time evolution of adsorption on real solids. The book contains 17 chapters written by a team of internationally recognized specialists, some of whom have already published books on adsorption. **Keynotes in**

Energy-Related Catalysis S. Kaliaguine, 2011-09-22. Catalysis by solid acids which includes modified zeolites is of special relevance to energy applications. Acid catalysis is highly important in modern petroleum refining operations; large-scale processes such as fluid catalytic cracking, catalytic reforming, alkylation, and olefin oligomerization rely on the transformation of hydrocarbons by acid catalysts. Modified zeolites are therefore essential for the improvement of existing processes and for technical innovations in the conversion of crude. There can be little doubt that zeolite-based catalysts will play a major role in the future management of fossil fuels and biomass, and this book is intended to contribute to tomorrow's achievements in this area. Each chapter presents the personal views of an expert or a small group of experts on the current state of the art and on the trends in his/her field likely to lead to important developments. The presentation of these various keynotes in one volume will provide inspiration to the reader interested in the development of zeolite-based catalysts for energy applications and in particular will suggest to the new comer in the field of catalyst design methods to develop his own original orientations.

Recent Advances in Zeolite Science J. Klinowski, P.J. Barrie, 1989-11-28. Interest in zeolites continues to grow, making it vital to keep up to date with recent findings. These proceedings include some of the latest discoveries in the zeolite field. Four plenary lectures provide in-depth coverage of key topics, namely the influence of diffusion on catalysis, recent advances in synthesis, modification of zeolites by aluminations, and quantum chemical studies of acidity. These are followed by nineteen papers written by contributors from all over the world covering a wide range of material of current interest. Several synthetic studies are presented, including the introduction of heteroatoms to induce higher catalytic acidity. Acidity and catalysis are probed by solid-state NMR and discussed through theoretical calculations. Two papers are concerned with the growing interest in using zeolites to catalyze shape-selective organic reactions. There are specific studies of zeolite characterization by NMR and electron energy loss spectroscopy. There are also a number of quantum chemical papers on zeolite stability and on the location of adsorbed species. The material presented is particularly up to date and will be of considerable interest to all research groups involved in zeolite sciences. **Natural Gas Conversion** A. Holmen, K.-J. Jens, S. Kolboe, 1991-05-27. These proceedings reflect the extensive fundamental and applied research efforts that are currently being made on the conversion of gas, in particular on the direct conversion of methane. The Symposium in Oslo focused on the following topics: Direct

conversion of methane Fischer Tropsch chemistry methanol conversion and natural gas conversion processes The main aim was to present the state of the art and progress currently being made within each of these areas The book contains the papers presented and includes plenary lectures short communications and posters The papers will be of interest to scientists and engineers working in the field of gas conversion transportation fuels primary petrochemicals and catalysis Catalyst Deactivation 1987 G.F. Froment,B. Delmon,1987-09-01 This Symposium on Catalyst Deactivation ensues those held at Berkeley 1985 Antwerp 1980 and Berkeley 1978 The three main topics emphasised at this most recent symposium were the techniques used in deactivation studies the mechanisms of catalyst deactivation and modelling With respect to the first it became apparent that the study of deactivation faces even more difficulties than the characterization of fresh catalysts and the measurement of activity or selectivity due to the multiplicity of interacting processes occurring during deactivation Quite substantial progress has been made recently in the understanding of the mechanisms of various deactivation processes particularly coking and extra time was accorded to these topics at the symposium The third topic corresponds to a problem which is very central to development studies and to the chemical engineering aspect of catalysis it deals with the representativity of accelerated tests and the modelling of the deactivation phenomena **Third World Congress on Oxidation Catalysis** S.T. Oyama,A.M. Gaffney,J.E. Lyons,R.K. Grasselli,1997-09-12 The overall theme of the 3rd World Congress is Atom Efficient Catalytic Oxidations for Global Technologies This theme was chosen to stimulate the participants to report their findings with an emphasis on conserving valuable material in their catalytic transformations as well as conserving energy in an environmentally responsible manner Progress towards this stated goal is substantial as evidenced by the tremendous response of the community in their participation of quality publications compiled in these Proceedings of the Congress The subjects presented span a wide range of oxidation reactions and catalysts These include the currently important area of lower alkane oxidation to the corresponding olefins unsaturated aldehydes acids and nitriles The four featured lectures and seven plenary lectures constitute the general background and overview of the subject matter at hand The 104 contributed papers and 13 poster manuscripts summarized in this compendium probe new avenues to achieve catalytically efficient oxidation reactions for the future needs of mankind in a global environment Heterogeneous Catalysis and Fine Chemicals II M. Guisnet,J. Barrault,C. Bouchoule,D. Duprez,G. Pérot,R. Maurel,C. Montassier,1991-04-19 The recession in the traditional heavy industries along with the development of advanced technologies in all the industrial countries has meant that the impact of heterogeneous catalysis in the synthesis of fine chemicals is becoming increasingly noticeable The second International Symposium on Heterogeneous Catalysis and Fine Chemicals is to be seen in this perspective Organised by the Laboratory of Catalysis in Organic Chemistry of the University of Poitiers within the framework of the International Symposia of the Centre National de la Recherche Scientifique CNRS the symposium provided an opportunity for contact between academic researchers and manufacturers users or potential users of solid catalysts for fine

chemical synthesis The book gives an overall view of the problems encountered by academic and industrial researchers A large variety of reactions are described the emphasis being on selectivity chemo regio stereoselectivity even enantioselectivity and on the change of these selectivities as a function of the characteristics of the surface sites nature distribution etc The three themes of the symposium hydrogenation oxidation and acid base catalysis were introduced in four plenary lectures and two invited communications maintaining a balance between the industrial and the academic points of view Some 60 research papers selected by the Scientific Committee were presented All are reproduced in full in this proceedings volume

Future Opportunities in Catalytic and Separation Technology M. Misono, Y. Moro-oka, S. Kimura, 1990-01-22 The production of useful materials and the removal of polluting substances are fundamental to chemical technology and in this respect catalytic and separation processes play essential roles In order to cope with increasing demands to find solutions for the shortage of natural resources and global environmental pollution rapid and significant progress in the technology is required This book results from the successful seminar on Selective Reactions and Separation held at Oiso Japan in February 1988 The seminar was organised by ASPRONC the Association for the Progress of New Chemistry as the fourth in a series of seminars on Frontier Technology ASPRONC was inaugurated in 1986 and its membership comprises major companies in the chemical industry and various other sectors interested in chemistry The aim of this seminar was to explore the frontiers of catalytic and separation technology and to discuss the requirements for its future development The many interesting lectures and active discussions which resulted stimulated the editors to prepare this book Each lecturer has written a chapter which represents a significantly revised and extended version of his original lecture The book will appeal to many readers and will undoubtedly help to make a positive contribution to the future development of chemical technology

Reaction Kinetics and the Development and Operation of Catalytic Processes G.F. Froment, K.C. Waugh, 2001-04-03 Reaction Kinetics and the Development and Operation of Catalytic Processes is a trendsetter The Keynote Lectures have been authored by top scientists and cover a broad range of topics like fundamental aspects of surface chemistry in particular dynamics and spillover the modeling of reaction mechanisms with special focus on the importance of transient experimentation and the application of kinetics in reactor design Fundamental and applied kinetic studies are well represented More than half of these deal with transient kinetics a new trend made possible by recent sophisticated experimental equipment and the awareness that transient experimentation provides more information and insight into the microphenomena occurring on the catalyst surface than steady state techniques The trend is not limited to purely kinetic studies since the great majority of the papers dealing with reactors also focus on transients and even deliberate transient operation It is to be expected that this trend will continue and amplify as the community becomes more aware of the predictive potential of fundamental kinetics when combined with detailed realistic modeling of the reactor operation

Advances in Chemical Conversions for Mitigating Carbon Dioxide T. Inui, M. Anpo, K. Izui, S. Yanagida, T.

Yamaguchi,1998-03-12 Global environmental problems especially global warming caused by the accelerative accumulation of carbon dioxide in the atmosphere are of great importance for humans The world s population is now approaching 6 billion and is still increasing Developments in communication systems and transportation tools have made the circulation of information technologies and materials easier which results in rapid economic growth particularly in the East and Southeastern Asian countries Increased affluence leads to an increased consumption of fossil fuels Inevitably this leads to an increase in carbon dioxide emission and environmentally hazardous materials which in turn precipitates climatic changes on a global scale Recent studies showed that the increase in carbon dioxide emission for last year was the highest in the past seven years and the total amount of carbon dioxide emission from all over the world reached 6 5 billion tons Furthermore one cannot overlook the report which appeared recently in Nature that the floor area of the iceberg in the South Pole has already decreased by 25% in the past five decades Over 260 scientists and engineers from 21 countries who had a strong interest and wished to contribute to solve the carbon dioxide problem attended this conference The papers presented in this volume cover most of the possibilities of the chemical conversion of carbon dioxide

Catalysis and Automotive Pollution

Control III A. Frennet,J.-M. Bastin,1995-11-02 These proceedings are based on the third of a series of symposia devoted to the use of catalysis for the depollution of exhaust gases of motor vehicles Although catalysts have been used for this purpose for some thirty years the subject is still very topical because of its economic impact The increasing number of submitted accepted and published papers amply attests to this fact

Methane Conversion D.M. Bibby,C.D. Chang,S. Yurchak,R.F.

Howe,1988-03-01 This proceedings volume comprises the invited plenary lectures contributed and poster papers presented at a symposium organised to mark the successful inauguration of the world s first commercial plant for production of gasoline from natural gas based on the Mobil methanol to gasoline process The objectives of the Symposium were to present both fundamental research and engineering aspects of the development and commercialization of gas to gasoline processes These include steam reforming methanol synthesis and methanol to gasoline Possible alternative processes e g MOGD Fischer Tropsch synthesis of hydrocarbons and the direct conversion of methane to higher hydrocarbons were also considered The papers in this volume provide a valuable and extremely wide ranging overview of current research into the various options for natural gas conversion giving a detailed description of the gas to gasoline process and plant Together they represent a unique combination of fundamental surface chemistry catalyst characterization reaction chemistry and engineering scale up and commercialization

Chemisorption of Probe Molecules

,1990-07-19 The present volume concentrates on catalyst surfaces The interaction of adsorbed molecules mostly on heterogenous catalysts although some reference to model catalysts is also made is discussed here Vibrational infrared and electron energy loss spectroscopies magnetic resonances nuclear and electron spin and thermal desorption methods have been included in this latter category The reader will find also a comparison of these well established methods with their recent developments which make them

much more attractive Therefore researchers working in the catalysis field will find much to interest them in this book

Catalyst Deactivation 1991 C.H. Bartholomew,J.B. Butt,1991-06-03 Catalyst Deactivation 1991 was an expanded version of earlier highly successful symposia The symposium featured invited and solicited papers including 4 plenary lectures 78 oral presentations and 23 poster papers Most of the papers are contained in this volume The eight main topics emphasised at this most recent symposium were deactivation mechanisms phenomena carbon deposition poisoning and sintering methods modeling and techniques and important catalysts hydrotreating oxides and zeolites All of these areas were well represented as attested by the substantial number of papers contained in these proceedings Four review papers based on the plenary lectures provide state of the art perspectives on new thrusts in deactivation research and development

Experiments in Catalytic Reaction Engineering J.M. Berty,1999-08-11 The science of catalytic reaction engineering studies the catalyst and the catalytic process in the laboratory in order to predict how they will perform in production scale reactors Surprises are to be avoided in the scaleup of industrial processes The laboratory results must account for flow heat and mass transfer influences on reaction rate to be useful for scaleup Calculated performance based on these results must also be useful to maximization of profit and safety and minimization of pollution To this end information on products as well as byproducts and heat produced must be generated If a sufficiently large database of knowledge is produced optimization studies will be possible later if economic conditions change The field of reaction engineering required new tools For kinetic and catalyst testing the most successful of these tools was the internal recycle reactor Studies in recycle reactors can be made under well defined conditions of flow and associated transfer processes and close to commercial operation The recycle reactor eliminates or minimizes the effect of transfer process and allows the remaining ones to be known Features of this book Provides insight into a field that is neither well understood nor properly appreciated Gives a deeper understanding of reaction engineering practice Helps avoid frustration and disappointment in industrial research This book is short and clear enough to assist all members of the R D and Engineering team whether reaction engineers or specialists in other fields This is critical in this new age of computation and communication when team members must each know at least something of their colleagues fields Additionally many scientists in more exploratory or fundamental fields can use recycle reactors to study basic phenomena free of transfer interactions Natural Gas Conversion VI T.H. Fleisch,Enrique Iglesia,J.J.

Spivey,2001-06-01 This volume contains peer reviewed manuscripts describing the scientific and technological advances presented at the 6th Natural Gas Conversion Sumposium held in Alaska in June 2001 This symposium continues the tradition of excellence and the status as the premier technical meeting in this area established by previous meetings The 6th Natural Gas Conversion Symposium is conducted under the overall direction of the Organizing Committee The Program Committee was responsible for the review selection editing of most of the manuscripts included in this volum A standing International Advisory Board has ensured the effective long term planning and the continuity and technical excellence of these meetings

Adsorption on New and Modified Inorganic Sorbents A. Dabrowski, V.A. Tertykh, 1996-01-15 There has been a lack of authoritative current information on the structure investigation and preparation of inorganic sorbents their numerous applications as well as the adsorption from gaseous and liquid phases on new and chemically modified inorganic solids This volume deals with the above mentioned themes and presents 34 up to date comprehensive and critical reviews written by well recognized authorities The sorbents discussed are primarily mineral ones Each contribution treats a problem critically by showing its development presenting documentation on the state of the art and identifying subjects for further research The book will be of interest to researchers in academic institutes and industrial laboratories engaged in the fields of surface chemistry inorganic chemistry adsorption ion exchange catalysis chromatography and spectroscopy of the surface phenomena as well as to students attending graduate and postgraduate courses

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