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CATALYTIC PROCESSES UNDER UNSTEADY-STATE CONDITIONS

Yu. Sh. Matros

Catalytic Processes Under Unsteady State Conditions

H Kauffman



Catalytic Processes Under Unsteady State Conditions:

Catalytic Processes Under Unsteady-State Conditions Y.S. Matros, 1988-12-01 This book deals with catalytic processes under forced non steady state conditions It demonstrates both theoretically and practically that forced non steady state processes are highly efficient compared with steady state processes and illustrates this with a wealth of practical examples The first part of the book describes the theoretical and experimental basis of efficient processes mathematical models of non steady state processes in reactors influence of a non steady state catalyst surface problems of optimization the theory of a heat front in the fixed catalyst bed and methods to create efficient cyclic regimes The second part considers the following processes sulphur dioxide oxidation in sulphuric acid production cleaning of effluent gases from toxic impurities production of high potency heat ammonia and methanol synthesis etc The book will appeal to many readers chemical engineers especially in the field of mathematical modelling of reactors with a fixed catalyst bed personnel of chemical plants and machine manufacturing companies dealing with maintenance and installation of catalytic reactors specialists in detoxification of the effluents from organic admixtures and carbon monoxide students of technical colleges and universities

Catalytic Processes Under Unsteady-state Conditions ,1989 **Catalytic processes under unsteady-state conditions** Jurij Š Matros, 1989 Unsteady State Processes in Catalysis Yu S. Matros, 1990-12 In the last decades the investigation methods of unsteady state catalytic processes have been widely developed by the response technique methods From this research emerged the realization that under unsteady state conditions and especially under artificially created ones it is possible to increase the productivity or selectivity of a catalyst or a catalytical process as a whole The scientific literature in this field is mostly theoretical and aims at structuring and analysing mathematical models of unsteady state catalytical processes In this book the theoretical and applied aspects of an efficiency of artificially created unsteady conditions in catalysis are discussed It contains the lectures from researchers from all over the world that were held during the International Conference Unsteady State Processes in Catalysis 5-8 June 1990 Novosibirsk USSR Topics include The problems of dynamics of a catalyst surface Kinetic models of unsteady processes Dynamics of chemical reactors Artificially created unsteady processes in a catalytic reactor **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 alumination 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

Combustion Technology for a Clean Environment Maria Carvalho, 2002-11-08 The more than 90 refereed papers in this volume continue a series of biannual benchmarks for technologies that maximize energy conversion while minimizing undesirable emissions Covering the entire range of industrial and transport combustion as well as strategies for energy research and development these state of the art will be indispensable to mechanical and chemical engineers in academia and industry and technical personnel in military energy and environmental government agencies The topics covered in this book include wood oil gas and coal combustion combustion of alternative fuels co combustion and co gasification catalytic combustion NO SO soot fundamentals advanced diagnostics burners fluidized bed combustion incineration engines advanced cycles gas clean up control strategy and clean combustion in process industries **Periodic Operation of Chemical**

Reactors P. L. Silveston, R. R. Hudgins, 2012-12-04 This comprehensive review prepared by 24 experts many of whom are pioneers of the subject brings together in one place over 40 years of research in this unique publication This book will assist R provides a rich source of experimental data plus process models Accompanying website with modelling data

Heterogeneous Catalysis and Fine Chemicals III J. Barbier, J. Barrault, C. Bouchoule, D. Duprez, C. Montassier, M. Guisnet, G. Pérot, 1993-09-09 Heterogeneous catalysis plays a major role in the organic synthesis of specialty and fine chemicals However as the interaction between surface sites and functional groups is complex more investigations are necessary into the effects of catalysts on the reaction mechanisms The Third International Symposium on Heterogeneous Catalysis and Fine Chemicals provided an opportunity for discussions on the basic and practical aspects of this subject between researchers manufacturers and users of solid catalysts for synthesis of fine chemicals The present volume comprises the invited plenary lectures and research papers classified under the three main headings hydrogenation oxidation and acid catalysis All papers were refereed A large variety of reactions are described the emphasis being on selectivity taking into account all aspects chemo regio and stereoselectivity including enantioselectivity and on the change of these selectivities as a function of the characteristics of the catalysts and operating conditions **Characterization of Porous Solids III F.**

Rodríguez-Reinoso, Jean Rouquerol, KK Unger, Kenneth Sing, 1994-08-26 The objectives of the Third IUPAC Symposium on the Characterization of Porous Solids COPS III were 1 to provide the opportunity for specialists to exchange ideas and new information on theoretical principles and methodology and 2 to generate proposals for the comparison and utilization of the many techniques now available for the characterization of porous solids A successful outcome of the Symposium has been the final report of the IUPAC Subcommittee on Recommendations for the Characterization of Porous Solids a summary of which is given in these proceedings The edited papers included in the present volume have been selected from the 155 oral and

poster presentations given at this symposium which attracted 200 participants from 28 different countries The following topics were discussed 1 Simulation and modelling of pore structures and pore filling mechanisms 2 Novel experimental techniques with particular reference to high resolution techniques 3 Model pore structures and reference materials 4 Porous materials of technological importance The wide range of materials and techniques described provide a useful and comprehensive reference source for academic and industrial scientists and technologists

Oxide-based Systems at the Crossroads of Chemistry C. Colella, S. Coluccia, Aldo Gamba, 2001-11-27 This volume includes papers presented at the second International Workshop on Oxide based Systems at the Crossroads of Chemistry held at Villa Olmo in Como Italy 8-11 October The selected papers present the highlights of recent research in the field of oxide structure A wide range of oxides including real oxides zeolites and layer structured systems is considered and described in terms of preparation methods structural characterization and the relation between active sites structure and catalytic properties The application of the most powerful simulation and physical chemical techniques show their usefulness in discovering and explaining structural and dynamic properties of complex materials Moreover the development of sophisticated spectroscopic and analytical techniques are shown to significantly improve the growth of surface oxide science generating new tools for the knowledge of catalyst structure and reaction mechanisms An interesting feature is the inclusion of papers which show the mutual roles of experiment and theoretical models

Heterogeneous Catalysis and Fine Chemicals IV H.U. Blaser, A. Baiker, R. Prins, 1997-06-19 After three meetings in Poitiers France the 4th International Symposium on Heterogeneous Catalysis and Fine Chemicals was held under the auspices of the New Swiss Chemical Society in Basel Switzerland Fundamental as well as applied contributions on the use of heterogeneous catalysis for the preparation of fine chemicals were presented and discussed The program consisted of 4 plenary lectures 28 oral contributions and around 90 posters covering a broad range of reactions and catalytic aspects 82 of these contributions are collected in the present proceedings grouped into the following 8 topical areas Industrial and engineering problems 7 contributions Alkylation and acylation reactions 11 contributions Enantio and diastereoselective hydrogenation reactions 9 contributions Chemoselective hydrogenation reactions 12 contributions Oxidation reactions 14 contributions Immobilized and encapsulated complex catalysts 12 contributions Zeolite and clay catalysts 12 contributions Miscellaneous topics 5 contributions

Molecular sieves, 2005

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

Natural Gas Conversion IV M. de Pontes, R.L. Espinoza, C.P. Nicolaides, J.H. Scholtz, M.S. Scurrall, 1997-03-14 The Fourth International Natural Gas Conversion Symposium was attended by 180 delegates from 25 countries Representation was evenly balanced between industry and academia The opening address was delivered by Mr Roy Pithey Chairman of South Africa's Central Energy Fund who dealt with the importance and utilisation of natural gas in sub Saharan Africa Plenary lectures were presented by Professors E Iglesia Catalyst design and selectivity for F T synthesis and E E Wolf Oxidative Coupling Methane A number of keynote addresses were delivered Dr T Fleisch Amoco described the use of DME as a transport fuel and the work which has been carried out in this area in collaboration with Haldor Topsoe Professor L D Schmidt Univ of Minnesota explained his work on the direct conversion of methane at high velocities Dr B Jager SASTECH R methanol conversion to higher alcohols CO H₂ conversion in a commercially viable route to higher alcohols and CO H₂ conversion to high quality gasoline It is obvious that such developments would fit into the energy cycle which has moved from wood to coal to oil to gas and will most probably move to hydrogen

Petroleum Biotechnology Rafael Vazquez-Duhalt, Rodolfo Quintero-Ramirez, 2004-09-18 This book is one of a kind in the field of petroleum biorefining and biological upgrade of petroleum it presents a critical review as well as an integrated overview of the potential biochemical processes bridging the gap between academia and industry It addresses today's demanding production challenges taking into account energy efficient and environmentally friendly processes and also looks at the future possibility of implementing new refinery systems Suitable for those practitioners the petroleum industry students and researchers interested in petroleum biotechnology Covers a new application field for biotechnology Looks at innovative processes for the petroleum industry Presents examples of modern environmental processes

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 **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 *Advanced Zeolite Science and Applications* Michael Stöcker, H.G. Karge, J.C. Jansen, J. Weitkamp, 1994-07-19 Zeolites and related microporous materials are used in oil processing and in the fine and petrochemical industries on a large scale New applications of zeolites contribute to environmentally friendly processes and refined zeolites such as catalytic zeolite membranes and zeolites containing exhaust pipe reactors are being introduced Recent diversity in zeolite research has been fueled by the increase in number of microporous materials and the combination with interfacing science areas The possibility to accommodate ions large molecules or nanostructures in the crystalline matrix has been explored and the performance of electronic acoustic and photonic modified response of the materials has been tested This volume provides up to date information on new zeolite and related materials and composites their applications testing of new processes and techniques and promising laboratory results as well A vast amount of work from a fundamental aspect is incorporated In particular the combination of science and application offers useful information for readers interested in molecular sieves Nanoporous Materials III M.

Jaroniec, Abdel Sayari, 2002-05-15 Nanoporous Materials III contains the invited lectures and peer reviewed oral and poster contributions to be presented at the 3rd Conference on Nanoporous Materials which will be hosted in Ottawa Canada June 2002 The work covers complementary approaches to and recent advances in the field of nanostructured materials with pore sizes larger than 1nm such as periodic mesoporous molecular sieves M41S and FSM16 and related materials including clays carbon molecular sieves colloidal crystal templated organic and inorganic materials porous polymers and sol gels The broad range of topics covered in relation to the synthesis and characterization of ordered mesoporous materials are of great

importance for advanced adsorption catalytic and separation processes as well as the development of nanotechnology The contents of this title are based on topics to be discussed by invited lecturers which deal with periodic mesoporous organosilicas stability and catalytic activity of aluminosilicate mesostructures electron microscopy studies of ordered materials imprinted polymers and highly porous metal organic frameworks The other contributions deal with tailoring the surface and structural properties of nanoporous materials giving a detailed characterization as well as demonstrating their usefulness for advanced adsorption and catalytic applications Preparation of Catalysts VI G. Poncelet, J. Martens, B. Delmon, P. Grange, P.A. Jacobs, 1995-03-24 The organizers of this Sixth Symposium maintained their initial objectives namely to gather experts from both industries and universities to discuss the scientific problems involved in the preparation of heterogeneous catalysts and to encourage as much as possible the presentation of research work on catalysts of real industrial significance Another highlight of these symposia is to reserve a substantial part of the program to new developments in catalyst preparation new preparation methods and new catalytic systems The fact that chemical reactions which were hardly conceivable some years ago have become possible today through the development of appropriate catalytic systems proves that catalysis is in constant progress The papers in this volume deal with preparation of new catalysts and supports catalyst preparation via sol gel methods supported catalysts and synthesis of nanometer size catalysts

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