



Deactivation Of Catalysts

LM Reder



Deactivation Of Catalysts:

Activation, Deactivation, and Poisoning of Catalysts John Butt, 2012-12-02 Activation Deactivation and Poisoning of Catalysts deals with the circumstances and mechanisms underlying catalyst activation deactivation and poisoning The emphasis is on the techniques for handling deactivating systems not on results per se Deactivation by fouling and sintering is given consideration This book is organized into three sections and consists of 12 chapters The first part is devoted to a systematic development of the manner in which catalysts are activated deactivated poisoned and in some cases reactivated on a microscopic basis The first chapter explains the concept of the active center as utilized in catalysis along with catalyst regeneration rejuvenation and detoxification In the second part the reader is introduced to the problem of heat transfer as well as the transport of reactants and products in the interior of the particle coupled with chemical reaction therein The macroscopic deactivation behavior of the catalyst particle is described in terms of fundamental kinetic deactivation phenomena and of parameters governing heat and mass transfer The last part is primarily concerned with a collection of catalyst particles within the reactor with emphasis on the global activity of the reactor In the last chapter a pragmatic approach is presented to predict the design and performance of chemical reactors containing a deactivating catalyst This book is written for catalytic chemists researchers reactor designers and students interested in catalyst activation deactivation and poisoning

Deactivation and Poisoning of Catalysts J. Oudar, 1985-07-02 Deactivation and Poisoning of Catalysts presents the most current research in the area of heterogeneous catalysis It focuses on the chemically induced effects associated with bonded surface species that cause catalyst activity decline and in some cases a change in catalyst specificity In addition this volume examines poisoning of dispersed metal catalysts the thermodynamics of sulfur metal and carbon metal interactions model poisoning reactions on single crystals deactivation in petroleum refining and petrochemical processes coking of metal catalysts and more The new approaches and solutions to catalyst deactivation and poisoning presented in this guide are invaluable to all heterogeneous catalysis specialists including chemical and petroleum engineers and surface synthetic physical and industrial chemists Book jacket

Progress in Catalyst Deactivation J.L. Figueiredo, 2012-12-06 Most catalysts used in the chemical and petrochemical industries are strongly affected by one or another form of deactivation leading to poor performances and reduced life The increasing number of scientific communications devoted to the subject in recent years and culminating with an International Symposium held in Antwerp in October 1980 is a measure of the interest it arouses in both the industrial and academic communities A stage has been reached whereby it was thought that a NATO Advanced Study Institute on Catalyst Deactivation might be fruitful in establishing the state of the art and in stimulating a more systematic research on the phenomenon Such a meeting was held in Lagos Portugal from 18 to 29 May 1981 The purpose of the Institute was to present and discuss in a didactic and systematic way the various processes that lead to catalyst deactivation namely coking poisoning and solid state transformations and at

the same time to promote the exchange of ideas and experiences among the participants drawn from industry and university. The lectures presented at the Institute are collected in this volume with the exception of Dr L. L. Hegedus, *Catalyst Poisoning*, which has been previously published in *Catalysis Reviews Science and Engineering* 23:377-476, 1981. **Catalysts Deactivation, Poisoning and Regeneration** Luciana Lisi, Stefano Cimino, 2019-10-01. Catalyst lifetime represents one of the most crucial economic aspects in industrial catalytic processes due to costly shutdowns, catalyst replacements and proper disposal of spent materials. Not surprisingly, there is considerable motivation to understand and treat catalyst deactivation, poisoning and regeneration, which causes this research topic to continue to grow. The complexity of catalyst poisoning obviously increases along with the increasing use of biomass waste derived residual feedstocks and with requirements for cleaner and novel sustainable processes. This book collects 15 research papers providing insights into several scientific and technical aspects of catalyst poisoning and deactivation, proposing more tolerant catalyst formulations and exploring possible regeneration strategies.

Catalyst Deactivation 1994 G.F. Froment, B. Delmon, 1994-09-08. Catalyst Deactivation 1994 was an expansion of earlier highly successful symposia. The objective of the symposium was to promote a scientific approach of the phenomenon of catalyst deactivation, which will contribute to the development of catalysts which are less subject to structural transformations and more resistant to poisons and coke formation. These aspects are dealt with in 12 plenary lectures, 48 oral presentations and 35 poster papers, which were critically selected from an impressive response from some 30 countries. Both fundamental and applied aspects were covered. The deactivation of catalysts in important industrial processes like fluid bed catalytic cracking, hydrotreatment, hydrodesulfurization, catalytic reforming, hydrodenitrogenation, steam reforming, hydrodemetallization, hydrocracking, Fischer-Tropsch synthesis, propane dehydrogenation, phthalic anhydride synthesis, received considerable attention. Mechanisms of poisoning, sintering and coking were further investigated and modelled, and new experimental techniques for the characterization and the quantification of deactivation were also introduced.

Advances in Catalyst Deactivation Calvin H. Bartholomew, Morris D. Argyle, 2018-10-01. This book is a printed edition of the Special Issue *Advances in Catalyst Deactivation* that was published in *Catalysts*.

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 Deactivation and Regeneration of Zeolite Catalysts M. Guisnet, F. Ramoa Ribeiro, 2011 In chemical processes the progressive deactivation of solid catalysts is a major economic concern and mastering their stability has become as essential as controlling their activity and selectivity For these reasons there is a strong motivation to understand the mechanisms leading to any loss in activity and or selectivity and to find out the efficient preventive measures and regenerative solutions that open the way towards cheaper and cleaner processes This book covers in a comprehensive way both the fundamental and applied aspects of solid catalyst deactivation and encompasses the state of the art in the field of reactions catalyzed by zeolites This particular choice is justified by the widespread use of molecular sieves in refining petrochemicals and organic chemicals synthesis processes by the large variety in the nature of their active sites acid base acid base redox bifunctional and especially by their peculiar features in terms of crystallinity structural order and textural properties which make them ideal models for heterogeneous catalysis The aim of this book is to be a critical review in the field of zeolite deactivation and regeneration by collecting a series of contributions by experts in the field which describe the factors explain the techniques to study the causes and suggest methods to prevent or limit catalyst deactivation At the same time an anthology of commercial processes and exemplar cases provides the reader with theoretical insights and practical hints on the deactivation mechanisms and draws attention to the key role played by the loss of activity on process design and industrial practice Deactivation of Catalysts Ronald Hughes, 1984 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 **Catalyst deactivation** Eugene E. Petersen, 1987 **Catalyst Deactivation, 1994** Bernard Delmon, 1994-01-01 Catalyst Deactivation 1994 was an expansion of earlier highly successful symposia The objective of the symposium was to promote a scientific approach of the phenomenon of catalyst deactivation which will contribute to the development of catalysts which are less subject to structural transformations and more resistant to poisons and coke formation These aspects are dealt with in 12 plenary lectures 48 oral presentations and 35 poster papers which were critically selected from an impressive response from some 30 countries Both fundamental and applied aspects were covered The deactivation of catalysts in important industrial processes like fluid bed catalytic cracking hydrotreatment hydrodesulfurization catalytic reforming hydrodenitrogenation steam reforming hydrodemetallization hydrocracking Fischer Tropsch synthesis propane dehydrogenation phthalic anhydride

synthesis received considerable attention Mechanisms of poisoning sintering and coking were further investigated and modelled and new experimental techniques for the characterization and the quantification of deactivation were also introduced Source inconnue

Homogeneous Catalysts John C. Chadwick, Rob Duchateau, Zoraida Freixa, Piet W. N. M. van Leeuwen, 2011-06-09 This first book to illuminate this important aspect of chemical synthesis improves the lifetime of catalysts thus reducing material and saving energy costs and waste The international panel of expert authors describes the studies that have been conducted concerning the way homogeneous catalysts decompose and the differences between homogeneous and heterogeneous catalysts The result is a ready reference for organic catalytic polymer and complex chemists as well as those working in industry and with on organometallics *Catalysts Deactivation, Poisoning and Regeneration* Luciana Lisi, Stefano Cimino, 2019 Catalyst lifetime represents one of the most crucial economic aspects in industrial catalytic processes due to costly shutdowns catalyst replacements and proper disposal of spent materials Not surprisingly there is considerable motivation to understand and treat catalyst deactivation poisoning and regeneration which causes this research topic to continue to grow The complexity of catalyst poisoning obviously increases along with the increasing use of biomass waste derived residual feedstocks and with requirements for cleaner and novel sustainable processes This book collects 15 research papers providing insights into several scientific and technical aspects of catalyst poisoning and deactivation proposing more tolerant catalyst formulations and exploring possible regeneration strategies

Progress in Catalyst Deactivation J.L. Figueiredo, 2011-11-02 Most catalysts used in the chemical and petrochemical industries are strongly affected by one or another form of deactivation leading to poor performances and reduced life The increasing number of scientific communications devoted to the subject in recent years and culminating with an International Symposium held in Antwerp in October 1980 is a measure of the interest it arouses in both the industrial and academic communities A stage has been reached whereby it was thought that a NATO Advanced Study Institute on Catalyst Deactivation might be fruitful in establishing the state of the art and in stimulating a more systematic research on the phenomenon Such a meeting was held in Lagos Portugal from 18 to 29 May 1981 The purpose of the Institute was to present and discuss in a didactic and systematic way the various processes that lead to catalyst deactivation namely coking poisoning and solid state transformations and at the same time to promote the exchange of ideas and experiences among the participants drawn from industry and university The lectures presented at the Institute are collected in this volume with the exception of Dr L L Hegedus Catalyst Poisoning which has been previously published Catalysts Reviews Science and Engineering 23 377 476 1981 *Deactivation of Heavy Oil Hydroprocessing Catalysts* Jorge Ancheyta, 2016-07-25 Written by a scientist and researcher with more than 25 years of experience in the field this serves as a complete guide to catalyst activity loss during the hydroprocessing of heavy oils Explores the physical and chemical properties of heavy oils and hydroprocessing catalysts the mechanisms of catalyst deactivation catalyst characterization by a variety of techniques and

reaction conditions laboratory and commercial information for model validations and more Demonstrates how to develop correlations and models for a variety of reaction scales with step by step descriptions and detailed experimental data Contains important implications for increasing operational efficiencies within the petroleum industry An essential reference for professionals and researchers working in the refining industry as well as students taking courses on chemical reaction engineering

Progress in Catalyst Deactivation J. L. Figueiredo,1982-06-30 Catalyst Deactivation 1997 G.A. Fuentes,C.H. Bartholomew,1997-09-12 Catalyst Deactivation 1997 focused on 9 key topical areas carbon deposition and coke formation chemicals environmental catalysis modeling petroleum processing poisoning syngas conversion techniques and thermal degradation All of these areas were well represented at the meeting moreover several review articles were presented that provide perspectives on new research and development thrusts The proceedings of the meeting are organized with six review and award articles at the front of the volume followed by topical articles a keynote 5 6 oral and 2 3 poster papers A list of authors is provided at the end of the book It should be emphasized that all of the papers were ranked and reviewed by members of the Scientific Committee

Catalyst Deactivation 1980: International Symposium Proceedings B. Delmon,2000-04-01 Catalyst Deactivation 1980 International Symposium Proceedings *Catalyst Deactivation, 1991* Calvin H. Bartholomew,1991 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

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