

Table 2
Catalyst poisons and inhibitors in chemical processes [Ullmann, 1985]

Process	Catalyst	Catalyst Poison, Inhibitor	Mode of action
NH ₃ synthesis	Fe	S, Se, Te, P, As compounds, Halogens	poison: strong chemisorptions or formation of compounds
		O ₂ , H ₂ O, NO	weak poison: oxidation of Fe surface; reduction possible but causes sintering
		CO ₂	inhibitor : reaction with alkaline promoters
		CO	poison and inhibitor: strong chemisorption, reduction to methane; accelerates sintering
		unsaturated hydrocarbons	inhibitor : strong chemisorption, slow reduction
Hydrogenation	Ni, Pt, Pd, Cu	S, Se, Te, P, As compounds, Halogens	poison: strong chemisorptions
		Hg and Pb Compounds	poison: alloy formation
		O ₂	poison: surface oxide film
		CO	Ni forms volatile carbonyls

Deactivation And Poisoning Of Catalysts

G.F. Froment, B. Delmon



Deactivation And Poisoning Of Catalysts:

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

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.

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.

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 Catalysis Reviews Science and Engineering 23 377-476 1981

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

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

Deactivation and Poisoning of Catalysts Oudar J Ed, 1985 **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.

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.

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 in *Catalysis Reviews: Science and Engineering* 23:377-476, 1981.

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

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Basic Principles in Applied Catalysis Manfred Baerns,2013-03-09 Applied catalysis is based nowadays not only on empirical knowledge but also on the many insights that have been gained from the fundamental understanding of catalysis It also comprises knowledge and expertise from catalytic reaction engineering in particular kinetics of the catalytic reaction and its interplay with heat and mass transfer as well as fluid dynamics and the specific conditions prevailing in the type of reactor used Applied catalysis comprises many areas from a reaction point of view many types of catalytic materials from which catalysts are formed are needed to achieve high selectivities and space time yields last but not least catalysts should have a long life time to which its deactivation is detrimental A catalytic material that fulfils all the demands then often requires special mechanical and thermal treatment to be used in practise Various books have been written about specific areas as mentioned above It is the intention of this contribution to present timely reports by well recognised experts in the field to outline the state of science and technology in selected but representative areas illustrating the basic principles of applied catalysis

Deactivation of Catalysts Ronald Hughes,1984 *The Effect of Mass Transfer on Catalyst Deactivation by Poisoning* K. M. Bafna,1978

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

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