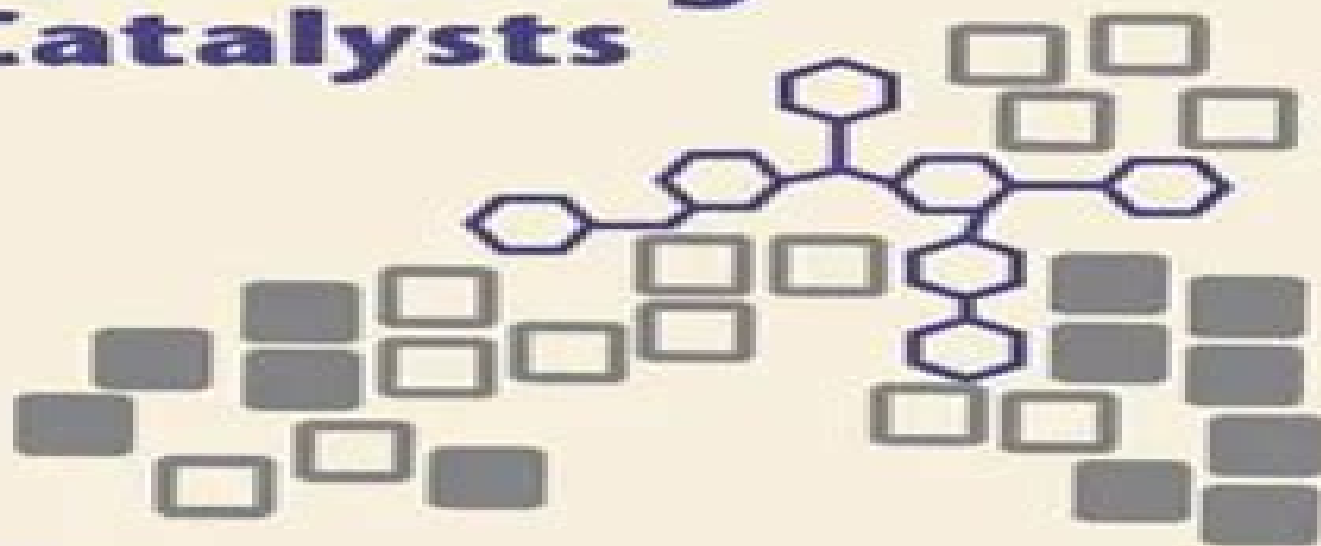


# Deactivation and Testing of Hydrocarbon-Processing Catalysts



EDITED BY  
**Paul O'Connor, Toru Takatsuka,  
and Geoffrey L. Woolery**

ACS Symposium Series 534

# Deactivation And Testing Of Hydrocarbon Processing Catalysts

**István T. Horváth**



## **Deactivation And Testing Of Hydrocarbon Processing Catalysts:**

*Deactivation and Testing of Hydrocarbon-processing Catalysts* Paul O'Connor, 1996 Drawn from a symposium of the 210th National Meeting of the American Chemical Society held in Chicago in August 1995 this volume is meant to serve as a practical reference focusing on testing for the main hydrocarbon conversion processes applied in oil refineries catalytic cracking hydroprocessing and reforming The volume contains 31 contributions divided into the following categories an overview catalyst deactivation by coke deactivation of fluid catalytic cracking catalysts deactivation of reforming catalysts deactivation of hydroprocessing catalysts testing of catalyst performance and modeling of catalyst performance Amply illustrated with bandw diagrams Annotation copyright by Book News Inc Portland OR

**Basic Principles in Applied Catalysis** Manfred Baerns, 2004-01-22 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

Fluid Catalytic Cracking V M.L. Occelli, P. O'Connor, 2001-04-27 Catalyst production for the transformation of crudes into gasoline and other fuel products is a billion dollar year business and fluid cracking catalysts FCCs represent almost half of the refinery catalyst market During the cracking reactions the FCC surface is contaminated by metals Ni V Fe Cu Na and by coke deposition As a result the catalyst activity and product selectivity is reduced to unacceptable levels thus forcing refiners to replace part of the recirculating equilibrium FCC inventory with fresh FCC to compensate for losses in catalyst performance About 1 100 tons day of FCC are used worldwide in over 200 fluid cracking catalyst units FCCUs It is for these reasons that refiners interest in FCC research has remained high through the years almost independantly of crude oil prices However recent oil company mergers and the dissolution of research laboratories have drastically decreased the number of researchers involved in petroleum refining research projects as a result the emphasis of research has shifted from new materials to process improvements and this trend is clearly reflected in the type of papers contained in this volume Modern spectroscopic techniques continue to be essential in the understanding of catalyst performance and several chapters in the book describe the use of  $^{27}\text{Al}$   $^{29}\text{Si}$  and  $^{13}\text{C}$  NMR to study variation in FCC acidity during aging and coke deposition In addition several

chapters have been dedicated to the modeling of FCC deactivation and to the understanding of contact times on FCC performance Refiners efforts to conform with environmental regulations are reflected in chapters dealing with sulfur removal metals contaminants and olefin generation

*Rare Earth* Sooraj H. Nandyala, 2024-06-05 This monograph represents a tribute to the late Prof Karl Gschneidner well known as Mr Rare Earth distinguished Professor of Materials Science and Engineering at the Iowa State University a Senior Metallurgist at the Ames Laboratory and the Chief Scientist of the Critical Materials Institute Topics covered include Rare Earth Glass Spectroscopy Treating Skin Diseases Prospective Rare Earth Applications Optical Information Storage Diagnostic Imaging Nanoparticles in Glasses and ZnO Nanomaterials Keywords Fiber Lasers Luminescent Pathway Forensic Applications Rejuvenating Skin Health Imaging FCC Catalyst Energy Transfer Rare Earth Phosphors

**Fluid Catalytic Cracking VI: Preparation and Characterization of Catalysts** Mario L. Occelli, 2004-07-06 This volume looks at the recent progress of this technology as reported in the 21 papers presented during the 219th National Meeting of the ACS in New York September 5 11 2003 In addition the volume focuses on the use of modern spectroscopic techniques for the generation of detailed structural analysis required for the advancement of the science of FCC design Other chapters look at the use and importance of solid state nuclear magnetic resonance NMR microcalorimetry and atomic force microscopy AFM to the study of FCCs and discussing strategies to control pollutant emissions from a refinery FCCU and looking at advances in FCC preparation

*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<sub>x</sub> NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> and combustion promoters technology

**Hydrocarbon Processing** ,1987      **Hydrocarbon Processing & Petroleum Refiner** ,1964      **Bulletin de la Société Chimique de Belgique** Société chimique de Belgique,1997 Vols 30 48 have a separately paged section containing the society s Proc s verbaux et informations 1927 39      **Recent Advances in the Science and Technology of Zeolites and Related Materials** ,2004-12-18 Recent Advances in the Science and Technology of Zeolites and Related Materials Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku Kokuritsu Kokkai Toshokan (Japan),1997      国立国会図書館蔵書目録,1997      国立国会図書館蔵書目録 (Japan),1997      **The Cumulative Book Index** ,1997 A world list of books in the English language      Index of Conference Proceedings British Library. Document Supply Centre,2000      **Bibliography of Agriculture** ,1996      **Encyclopedia of Catalysis** István T. Horváth,2003-02-06 Catalysis the speeding up of a chemical reaction by a substance which itself does not react is vital not only to the chemical process industry but also to life itself The six volume Encyclopedia of Catalysis is the definitive A to Z reference work covering the most significant aspects of homogenous heterogeneous asymmetric biomimetic and biological catalysis Available both on line and in print the state of the art Encyclopedia encompasses the principles of catalysis the scope of catalytic reactions the preparation characterization and use of catalysts including catalytic technology the modeling of catalytic processes and related reaction engineering techniques The logical organization of this seminal work renders the text easily accessible to both process personnel and those involved in basic and applied research and development For more information regarding the online edition please visit Wiley InterScience at [www.mrw.interscience.wiley.com/enccat](http://www.mrw.interscience.wiley.com/enccat)      *The Canadian Journal of Chemical Engineering* ,1989-08      Selected Developments in Catalysis J. Richard Jennings,1985      Nafta ,2005

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