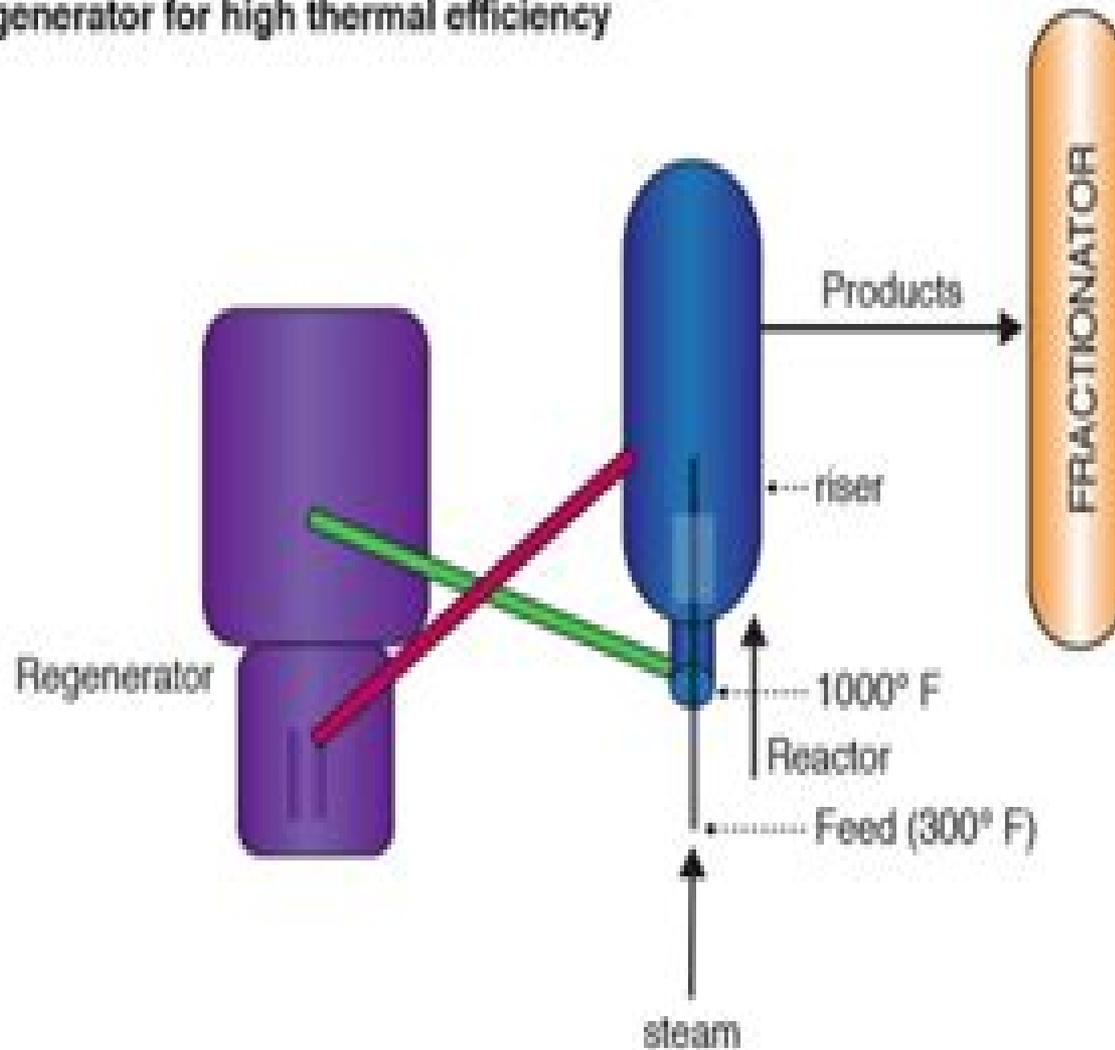


Fluid Catalytic Cracking (FCC)

- Introduced in 1942
- Excellent integration of reactor with catalyst regenerator for high thermal efficiency



Fluid Cracking Catalysis

CO Houle



Fluid Cracking Catalysis:

Fluid Catalytic Cracking J.S. Magee, M.M. Mitchell, 1993-07-23 The primary focus of this book as a whole is on performance performance of the catalyst of its surface of the FCC unit of the feedstocks employed of the analytical methods used to characterize the catalysts and of environmentally directed regulations that govern the production of transportation fuels from petroleum The emphasis on catalyst performance particularly commercial performance essentially dictated that the chapter authors be experienced industrial catalytic chemists and engineers However each author approached the task with a clear cut obligation to connect the roots of the science of FCC catalysis with the technology Fluid Catalytic Cracking Science and Technology has been written for workers in industrial catalysis and academia including graduate students in chemistry or chemical engineering who are interested in acquiring an overall knowledge of one of the world s most important areas of catalysis The book is concise each topic is treated briefly complete all aspects of FCC catalysis are covered and clear anyone involved in this field will find topics of interest Fluid Catalytic Cracking with Zeolite Catalysts Paul B. Venuto, E. Thomas Habib, 1979 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}Al ^{29}Si and ^{13}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 **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_x NO_x 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_x 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_x and combustion promoters technology

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 Handbook Reza Sadeghbeigi, 2000-06-08 This thoroughly updated edition of Fluid Catalytic Cracking Handbook provides practical information on the design operation troubleshooting and optimization of fluid catalytic cracking FCC facilities Based on the author's years of field experience this expanded second edition covers the latest technologies to improve the profitability and reliability of the FCC units and provides several no to low cost practical recommendations A new chapter supplies valuable recommendations for debottlenecking and optimizing the performance of cat cracker operations

Fluid Catalytic Cracking Technology and Operations Joseph W. Wilson, 1997 Fluid catalytic cracking FCC is the dominant conversion process in petroleum refineries and the major contributor to value added in the refining process Successful operation of the FCC unit is critical to the operation of the FCC unit is critical to the operating success of most refineries This book provides a complete and in depth view of FCC process design and operating principles and the current FCC technologies available to the refining industry

Fluid Cracking Catalysts Mario L. Occelli, 1998-01-05 Reviews recent accomplishments in the field of fluid cracking catalysts FCC Discusses the development of more specialized and effective catalysts and processes as well as the modification of current technology to meet future challenges in fuel refining Written by nearly 50 internationally recognized experts from academia and industry

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Catalytic Cracking Mario L. Occelli,1988 *Advances in Fluid Catalytic Cracking* Mario L. Occelli,2010-11-30 Refiners efforts to conform to increasingly stringent laws and a preference for fuels derived from renewable sources have mandated changes in fluid cracking catalyst technology *Advances in Fluid Catalytic Cracking Testing Characterization and Environmental Regulations* explores recent advances and innovations in this important component of petr **Fluid Catalytic Cracking VII** Mario L. Occelli,2007 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_x NO_x 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_x 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_x and combustion promoters technology *Fluid Catalytic Cracking II* Mario L. Occelli,1991 As refiners worldwide meet crude oil quality problems and address environmental issues and regulations development of new fluid catalytic cracking FCC formulations are essential In this volume theoretical and applied aspects of cracking are discussed in chapters dealing with the origin and effects of strong acidity modelling catalyst testing residue processing and additive usage Several chapters combine catalyst design with modern characterization techniques to provide guidance in the difficult problem of cracking metal contaminated feedstocks *Fluid Catalytic Cracking* Mario L. Occelli,1988 *Advances in Fluid Catalytic Cracking* Mario L. Occelli,2010-11-30 Refiners efforts to conform to increasingly stringent laws and a preference for fuels derived from renewable sources have mandated changes in fluid cracking catalyst technology *Advances in Fluid Catalytic Cracking Testing Characterization and Environmental Regulations* explores recent advances and innovations in this important component of petr *Fluid Catalytic Cracking* Chinasaekpere Ihediwa,2021 Catalytic cracking is a process in which hot powdered catalyst is intimately mixed with a hot petroleum derived feedstock then transported through a turbulent reaction zone with a

reactant residence time of 1.5 seconds. It has enabled refineries to produce a tremendous amount of high octane number gasoline from high boiling stocks using catalysts. It progresses through a carbocation to produce active species on acidic catalytic sites. This process involves acidic catalysts like zeolite in the breaking up of long carbon chains of n-alkanes into shorter chains, alkanes like iso-alkanes, cycloalkanes, and aromatics. Other products like Liquefied Petroleum Gas (LPG), cycle oils, and olefin-rich light hydrocarbons (C₃-C₄) are also produced. The olefin-rich light hydrocarbons are used as petrochemical feedstock and as reactants in alkylation and polymerization reactions. Refining shale crude oil presents a very difficult challenge because of its very low hydrogen to carbon ratios. The production of good quality gasoline, kerosene, and diesel are very poor due to high levels of heavier components such as asphaltene and sulphur-containing species. Many petroleum refineries combine two methods in order to convert and refine this heavy crude oil: conventional fluidized catalytic cracking followed by residue fluidized catalytic cracking, allowing heavy oils with high viscosity to be processed and refined.

Octane-Enhancing Zeolitic FCC Catalysts Julius Scherzer, 1990-08-31. A review of the recent literature on a method of boosting gasoline that has become important because of the phase-down of lead in gasoline. The treatment is comprehensive rather than specific, but details of a few selected catalysts and zeolites are provided. The classifications of high-silica Y-zeo

Fluid Catalytic Cracking III Mario L. Occelli, 1994. Discusses the formulation, characterization, microactivity, and pilot plant testing and product analysis of fluid cracking catalysts. Examines the use of modern spectroscopic techniques such as infrared spectroscopy, solid-state nuclear magnetic resonance spectroscopy, and X-ray photoelectron spectroscopy for the analysis of FCC catalysts. Presents the first use of atomic force microscopy in the study of FCC catalysts. Studies the impact of environmental laws on the discovery of novel FCC catalysts. Advances in Idongesit Effiong Sampson, 2024-03-11. The

Fluidized Catalytic Cracking (FCC) has passed through a remarkable period of innovation which has resulted in its commanding the leading position as the primary and secondary refinery asset in most high-conversion refineries. With FCC, heavy hydrocarbons are cracked to useful products. The gasoline produced is of high octane number. The history of this process began in one man's laboratory and was catapulted by the emergence of World War II into one of the primary means of producing aviation jet fuel. The prominence of the FCC unit continued to increase following the war within the refining world. The FCC unit has passed through a number of fundamental shifts in innovation, including the advent of zeolite catalysis, residue cracking, residue upgradation, fluid catalytic cracking, deep catalytic cracking, and most recently as an engine for producing chemical feedstock: Propylene-Rich Feed (PRF), Butene-Rich Feed (BRF), and decant oil, besides fuel gas and coke. Additionally, world fuel markets are now shifting towards diesel, which is once again providing a driving force for further innovation. While the FCC unit is a mature technology, it is far from stagnant. The coming decades are sure to continue this trend. **Guide to Fluid Catalytic Cracking**, 1993. Fluid Catalytic Cracking II, 1991.

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