

Propane To Propylene Uop Oleflex Process

UOP Booklet Science and Technology in Catalysis Chemical Technologies and Processes Science and Technology in Catalysis Catalysis for Clean Energy and Environmental Sustainability Scale-Up Processes Methanol: The Basic Chemical and Energy Feedstock of the Future Proceedings Chemical Engineering Progress Handbook of Petroleum Refining Processes, Fourth Edition The Oil and Gas Journal Proceedings, Annual Convention Handbook of Petrochemicals Production Processes Handbook of Petroleum Refining Processes Catalysis from A to Z Chemical Engineering Handbook of Petrochemicals Production, Second Edition Petroleum Engineer for Management The Petroleum Engineer Hydrocarbon Processing & Petroleum Refiner Universal Oil Products Company Masakazu Anpo Katarzyna Staszak K Eguchi K. K. Pant Jamal Chaouki Martin Bertau Robert A. Meyers Natural Gas Processors Association Robert A. Meyers Robert Allen Meyers Boy Cornils Robert A. Meyers

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this book is essential reading for scientists and students interested in both organic and inorganic chemical technology the authors cover the production of chemical reagents as well as trends from adjacent fields including biotechnology and process simulation chemical technologies and processes is of interest to chemical engineers materials scientists as well as chemists in both academia and industry

unsteady state operations of catalytic reactors provide plentiful opportunities for research and commercial realization of efficient heterogeneous catalytic processes forced unsteady state conditions generate unique distributions of process parameters and catalyst states often unattainable with traditional steady state operation the unsteady states can be created by periodic changes in input flow parameters such as changes in inlet temperature and composition catalyst circulation through reaction and regeneration zones or periodic flow reversals through fixed catalyst bed this can result in increased productivity selectivity capital savings and operating cost reduction higher energy efficiency efficient environmental technologies for treatment of toxic emissions acid rain and greenhouse gas emissions can also be developed using the unsteady state concept the proceedings communicate recent progress in these areas of research and promote future development the aims are to establish relations between academia industry engineers and scientists from all over the world to stimulate new catalytic technologies as well as fundamental research and to create new concepts for the development of effective catalytic systems it presents the most up to date research in catalysis contains the most recent developments in catalytic research includes research finding as well as their application to industry a thorough source of information on the latest developments of industrial catalysis in japan

this book is part of a two volume work that offers a unique blend of information on realistic evaluations of catalyst based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion refining and petrochemical production the volumes provide a comprehensive resource of state of the art technologies and green chemistry methodologies from researchers academics and chemical and manufacturing industrial scientists the work will be of interest to professors researchers and practitioners in clean energy catalysis green chemistry chemical engineering and manufacturing and environmental sustainability this volume focuses on catalyst synthesis and green chemistry applications for petrochemical and refining processes while most books on the subject focus on catalyst use for conventional crude fuel oriented refineries this book emphasizes recent transitions to petrochemical refineries with the goal of evaluating how green chemistry applications can produce clean energy through petrochemical industrial means the majority of the chapters are contributed by industrial researchers and technicians and address various petrochemical processes including hydrotreating hydrocracking flue gas treatment and isomerization catalysts

common scale up methods are conventional where the blind piloting is essential this imposes huge investment and leads to failures mostly in solid processing however the limitations of resources current shortcomings short time to market demand are forced companies to minimize piloting with these situations in mind current digitalization outlook and computational facilities we proposed and developed a novel iterative scale up method with case studies which highly expedites the process innovation through the following key sequences

methanol the chemical and energy feedstock of the future offers a visionary yet unbiased view of methanol technology based on the groundbreaking 1986 publication methanol by friedrich asinger

this book includes contributions by more than 40 experts from industry and academia the authors and editors provide a comprehensive exposition of methanol chemistry and technology which is useful for a wide variety of scientists working in chemistry and energy related industries as well as academic researchers and even decision makers and organisations concerned with the future of chemical and energy feedstocks

this fully revised resource presents the latest technologies and processes for petroleum refining from the world's leading producers handbook of petroleum refining processes has become a key reference in the chemical and petroleum engineering markets the book is unique in that it presents licensable technologies for the refining of petroleum and production of environmentally acceptable fuels and petrochemical intermediates the new edition covers the gamut of global refining technologies in light of recent changes to the sources of these fuels as well as the most up to date global environmental regulations contributions come from such major licensors of petroleum refining technology as uop inc shell ExxonMobil research and engineering company Emre Chevron Lummus Global Phillips 66 Belco BP and others the new edition shifts its emphasis to accommodate the increased production of shale gas and shale oil which is changing the overall mix of hydrocarbon feeds declining conventional crude production and the need for regional energy independence continues to drive demand to use lower cost alternate feedstocks such as coal shale oil and heavy crude to use alternate feedstocks in existing refineries many processes need to be modified the increase in diesel demand and stricter fuel specifications is driving refiners to look for ways to produce higher yields from existing assets the book reflects these factors plus the increase in residue conversion hydrocracking evolving as a primary conversion process and hydrotreating increasing as a way to treat virgin and cracked middle distillate streams offers detailed description of process chemistry and thermodynamics and product by product specifications of plants contributors are drawn from the largest petroleum producers in the world including Chevron Shell ExxonMobil and UOP covers the very latest technologies in the field of petroleum refining processes and the shift toward shale gas and oil a complete listing and explanation of licensable global technologies for the refining of petroleum and the production of environmentally acceptable fuels and petrochemical intermediates provides product by product specifications and process economics capital investment annualized capital costs and the price range for each product

this unique reference is the only one stop source for details on licensed petrochemical processes for the major organic chemicals a 200 billion annual market with chapters prepared by some of the largest petrochemical and petroleum companies in the world handbook of petrochemicals production processes provides in depth process detail for commercial evaluation and covers plastics and polymers such as ethylene and polyethylene propylene ethylbenzene styrene and polystyrenes vinyl chloride and polyvinyl chloride and many others this handbook answers questions on yields unit operations chemical and physical values economics and much more

thoroughly revised and expanded by 50 the new edition of this handbook is a comprehensive guide to all aspects of petroleum refining processes the author defines the technology pollution control and

economic aspects of 60 processes

comprehensive succinct and easy to use this updated third edition contains 50 more content in three volumes more than 200 top scientists worldwide have contributed over 8 000 entries with 3 300 cross references on all aspects of bio heterogeneous and homogeneous catalysis

a complete guide to petrochemicals production processes fully revised to cover the latest advances get all the information you need on petrochemical processes for major organic chemicals inside this industry standard one stop reference prepared by leading petrochemical licensing firms handbook of petrochemicals production processes second edition clearly explains the powerful techniques used to create the most economically important chemicals in the world the book offers cutting edge production methods along with detailed product properties you will discover how to effectively evaluate licensable processes for new production through the comparison of technologies environmental factors and economics coverage includes general process descriptions feed definitions product yields and simplified flow diagrams process chemistries and thermodynamics commercial process perspectives including plant locations and long term plans process details with flow diagrams and mass and energy balances for major process variations feeds and details on unique and key equipment brand new details on gas to petrochemical conversion biomass to petrochemical conversion and bisphenol a bpa

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