Propane To Propylene Uop Oleflex Process

Science and Technology in CatalysisCatalysis for Clean Energy and Environmental SustainabilityScience and Technology in CatalysisMetal Oxides in Heterogeneous CatalysisFuels and Lubricants HandbookMethanol: The Basic Chemical and Energy Feedstock of the FutureHandbook of Petroleum Refining Processes, Fourth EditionProceedings of the Fifteenth World Petroleum Congress, Natural Gas, Reserves Environment & Safety Business/Management Research and TransportationProceedingsHandbook of Petroleum Refining ProcessesHandbook of Petrochemicals Production ProcessesThe Oil and Gas JournalChemical Engineering ProgressCatalysis from A to ZHandbook of Petrochemicals Production, Second EditionComposite Catalog of Oil Refinery and Natural Gasoline Plant EquipmentChemical EngineeringHydrocarbon Processing & Petroleum RefinerHydrocarbon ProcessingChemistry and Industry Masakazu Anpo K. K. Pant K Eguchi Jacques C. Vedrine Martin Bertau Robert A. Meyers World Petroleum Congress (WPC) Robert Allen Meyers Robert A. Meyers Boy Cornils Robert A. Meyers
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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

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

metal oxides in heterogeneous catalysis is an overview of the past present and future of heterogeneous catalysis using metal oxides catalysts the book presents the historical theoretical and practical aspects of metal oxide based heterogeneous catalysis metal oxides in heterogeneous catalysis deals with fundamental information on heterogeneous catalysis including reaction mechanisms and kinetics approaches there is also a focus on the classification of metal oxides used as catalysts preparation methods and touches on zeolites mesoporous materials and metal organic frameworks mofs in catalysis it will touch on acid or base type reactions selective partial and total oxidation reactions and enzymatic type reactions the book also touches heavily on the biomass applications of metal oxide catalysts and environmentally related depollution reactions such as covs elimination

denox and desox finally the book also deals with future trends and prospects in metal oxide based heterogeneous catalysis presents case studies in each chapter that provide a focus on the industrial applications includes fundamentals key theories and practical applications of metal oxide based heterogeneous catalysis in one comprehensive resource edited and contributed by leading experts who provide perspectives on synthesis characterization and applications

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

the wpc is dedicated to the application of scientific advances in the oil and gas industries to technology transfer and to the use of the world s

petroleum resources the fifteenth world petroleum congress was held between 12 16th october 1997 in beijing china

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

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 evalutation and covers plastics and polymers such as ethylene and polyethylene propylene ehtylbenzene 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

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 bisphonal a bpa

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