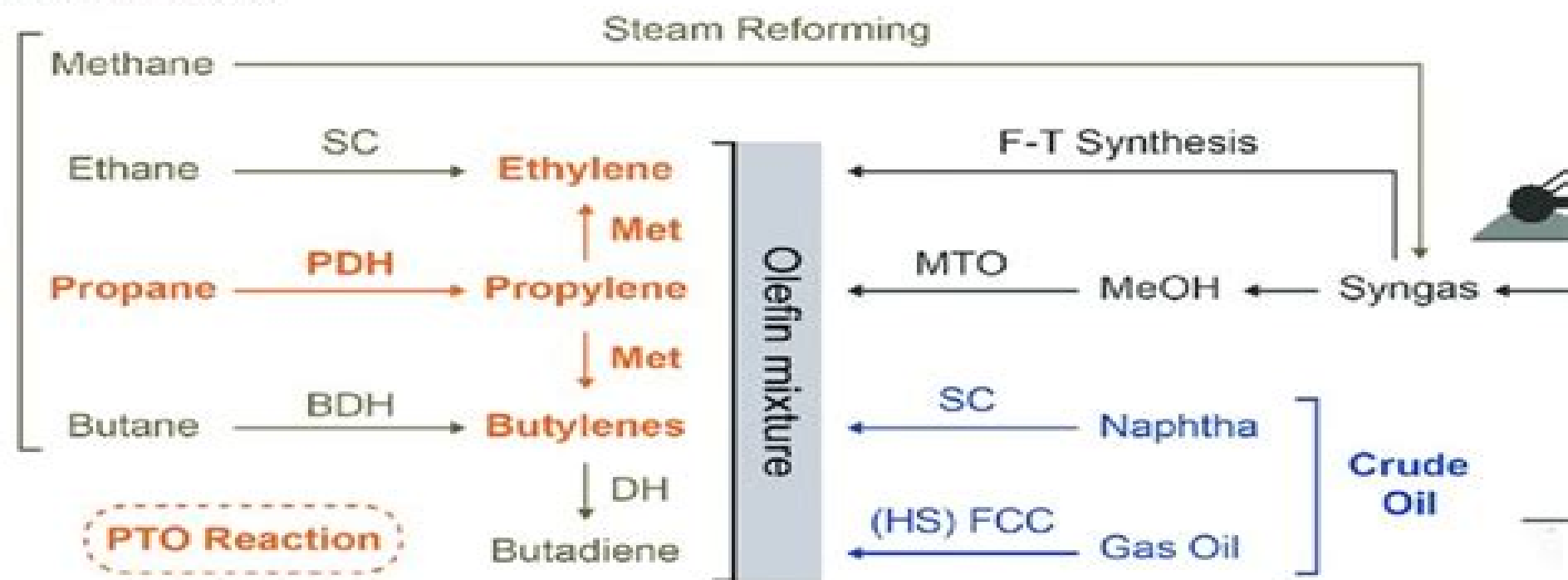
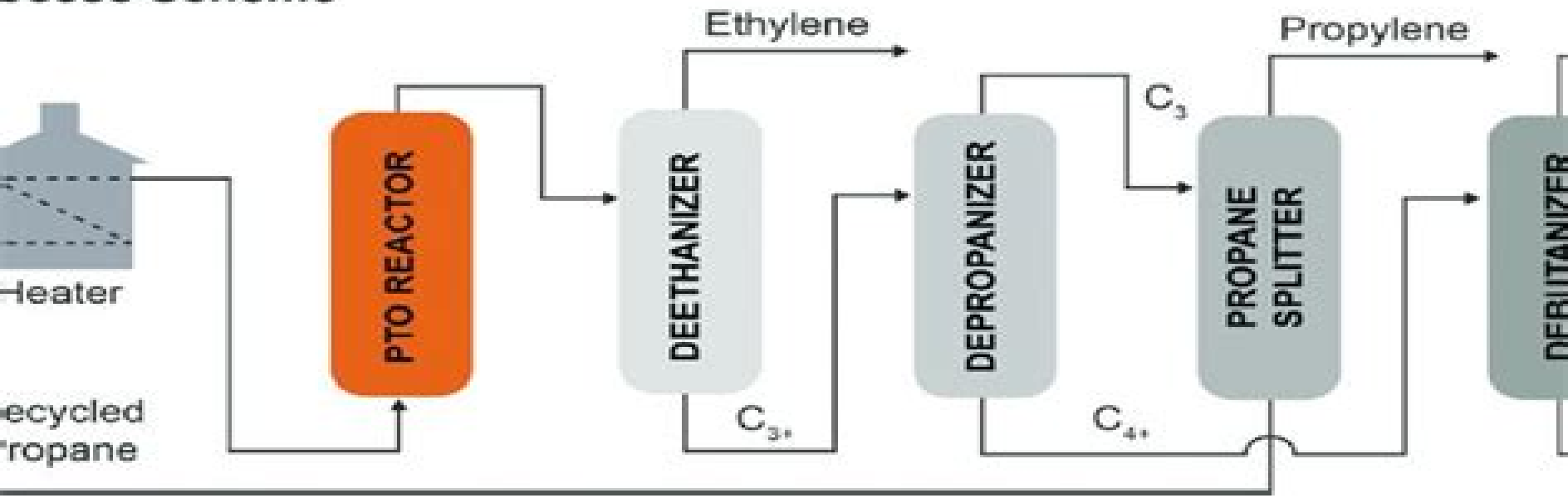


# Feedstocks



# Process Scheme



# Integration Propane Dehydrogenation Pdh

**Michael Berger**



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Alkane Functionalization Armando J. L. Pombeiro, Maria de Fatima Costa Guedes da Silva, 2019-03-11 Presents state of the art information concerning the syntheses of valuable functionalized organic compounds from alkanes with a focus on simple mild and green catalytic processes Alkane Functionalization offers a comprehensive review of the state of the art of catalytic functionalization of alkanes under mild and green conditions Written by a team of leading experts on the topic the book examines the latest research developments in the synthesis of valuable functionalized organic compounds from alkanes The authors describe the various modes of interaction of alkanes with metal centres and examine the oxidative alkane functionalization upon C O bond formation They address the many types of mechanisms discuss typical catalytic systems and highlight the strategies inspired by biological catalytic systems The book also describes alkane functionalization upon C heteroatom bond formation as well as oxidative and non oxidative approaches In addition the book explores non transition metal catalysts and metal free catalytic systems and presents selected types of functionalization of sp<sup>3</sup> C H bonds pertaining to substrates other than alkanes This important resource Presents a guide to the most recent advances concerning the syntheses of valuable functionalized organic compounds from alkanes Contains information from leading experts on the topic Offers information on the catalytic functionalization of alkanes that allows for improved simplicity and sustainability compared to current multi stage industrial processes Explores the challenges inherent with the application of alkanes as starting materials for syntheses of added value functionalized organic compounds Written for academic researchers and industrial scientists working in the fields of coordination chemistry organometallic chemistry catalysis organic synthesis and green chemistry Alkane Functionalization is an important resource for accessing the most up

to date information available in the field of catalytic functionalization of alkanes **Waste Not! How Nanotechnologies Can Increase Efficiencies Throughout Society** Michael Berger,2025-06-25 There is a pressing global issue of waste and its multi fold impact on society the environment and the economy This comprehensive guide details the extensive applications of nanotechnologies as a promising solution presenting a structured examination of how these technological advancements contribute to substantial waste reduction and more efficient waste management processes Furthermore the book explores emerging trends offering readers a well rounded view and preparing them for future advancements in nanotechnology and sustainable waste management thereby ensuring continued relevance and utility in the evolving technological landscape Written by an authority figure in the applications of nanotechnologies this book is suitable for a global audience and is a valuable resource for individuals policymakers and stakeholders across various countries

**Efficient Petrochemical Processes** Frank (Xin X.) Zhu,James A. Johnson,David W. Ablin,Gregory A. Ernst,2019-10-15 A GUIDE TO THE DESIGN OPERATION CONTROL TROUBLESHOOTING OPTIMIZATION AS WELL AS THE RECENT ADVANCES IN THE FIELD OF PETROCHEMICAL PROCESSES Efficient Petrochemical Processes Technology Design and Operation is a guide to the tools and methods for energy optimization and process design Written by a panel of experts on the topic the book highlights the application of these methods on petrochemical technology such as the aromatics process unit The authors describe practical approaches and tools that focus on improving industrial energy efficiency reducing capital investment and optimizing yields through better design operation and optimization The text is divided into sections that cover the range of essential topics petrochemical technology description process design considerations reaction and separation design process integration process system optimization types of revamps equipment assessment common operating issues and troubleshooting case analysis This important book Provides the basic knowledge related to fundamentals design and operation for petrochemical processes Applies process integration techniques and optimization techniques that improve process design and operations in the petrochemical process Provides practical methods and tools for industrial practitioners Puts the focus on improving industrial energy efficiency reducing capital investment and optimizing yields Contains information on the most recent advances in the field Written for managers engineers and operators working in process industries as well as university students Efficient Petrochemical Processes Technology Design and Operation explains the most recent advances in the field of petrochemical processes and discusses in detail catalytic and adsorbent materials reaction and separation mechanisms **Technology Economics: Propylene Via Propane Dehydrogenation** Intratec,2013-03-25 The rise of shale gas and the consequent reduction in propane prices added to the interest about Propane Dehydrogenation PDH processes one of on purpose propylene production technologies This publication reviews the technical aspects of a PDH technology similar to the Uhde STAR process r which employs an oxydehydrogenation step The analysis also includes estimates for both the capital investment and the operating costs of typical plants on the US Gulf Coast

and in China This study follows the same pattern as all Technology Economics studies developed by Intratec About Technology Economics Technology Economics studies are advisory services ordered by leading chemical companies which are disclosed to public after an agreed upon period of time All Technology Economics studies are based on the same rigorous methodology and well defined structure encompassing Process flow diagrams and material balances Raw material and utility consumptions Major equipment sizing Inside and outside battery limits capital costs Detailed fixed and variable manufacturing expenses

Membrane Reactor Engineering Angelo Basile,Marcello De Falco,Gabriele Centi,Gaetano Iaquaniello,2016-09-19 Uniquely focussed on the engineering aspects of membrane reactors Provides tools for analysis with specific regard to sustainability Applications include water treatment wastewater recycling desalination biorefineries agro food production Membrane reactors can bring energy saving reduced environmental impact and lower operating costs

*Nafta* ,2002 *32nd European Symposium on Computer Aided Process Engineering* Ludovic Montastruc,Stephane Negny,2022-06-30 32nd European Symposium on Computer Aided Process Engineering ESCAPE 32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event held in Toulouse France It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries who work in process development and design Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event

*MEED.* ,2006 Chemical Engineering Progress ,2004 ICIS Chemical Business ,2008 Middle East Economic Digest ,2004 **Handbook of Petrochemicals Production, Second Edition** Robert A. Meyers,2018-10-06 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

**Handbook of Petroleum Refining Processes, Fourth Edition** Robert A. Meyers,2016-03-18 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

#### **Technology Economics: Propylene Via Propane Dehydrogenation**

Intratec,2013-03-26 A comprehensive study about on purpose propylene production via propane dehydrogenation PDH a promising alternative that arises from the growing availability of low cost propane in the United States due to the exploitation of shale gas in the country The technical aspects of a PDH process similar to the UOP Oleflex technology are reviewed The analysis also includes estimates for both the capital investment and the operating costs of typical plants on the US Gulf Coast and in China This study follows the same pattern as all Technology Economics studies developed by Intratec About Technology Economics Technology Economics studies are advisory services ordered by leading chemical companies which are disclosed to public after an agreed upon period of time All Technology Economics studies are based on the same rigorous methodology and well defined structure encompassing Process flow diagrams and material balances Raw material and utility consumptions Major equipment sizing Inside and outside battery limits capital costs Detailed fixed and variable manufacturing expenses

#### **Propylene Production Via Propane Dehydrogenation**

Intratec,2012-09-20 The tight propylene market contributed to the rising of new and novel lower cost chemical processes for on purpose propylene production technologies like the Propane Dehydrogenation PDH technology This report analyzes a PDH process similar to the licensed by Lummus CATOFIN r It is presented a technical and economic evaluation of a unit located in the US Gulf Coast

China and Brazil While China presented the lowest CAPEX the USA presented the most advantageous operational margins due to the rise of shale gas and reduction in propane prices Although China still depends on imported propane from Middle East being subjected to shortages of supply the historical operational margins are high enough to explain the number of PDH planned projects in the country About the Publication Program The Technology Economics Program is a program that provides by way of periodic reports in depth techno economic assessments covering mature process technologies used by the chemical polymer refining and allied industries Each report presents the following topics process flow diagrams and description heat and material balances major equipment list equipment cost estimates bulk material and installation costs inside and outside battery limits capital costs process yields raw material and utility consumptions fixed costs contributions process profitability by location

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Mechanism Investigation of Propane Dehydrogenation Over Metal Cation Exchanged Zeolite Catalysts Yong Yuan,2022 Propane dehydrogenation PDH has recently received extensive attention by the scientific community due to the growing gap between propylene demand and supply and the large availability of propane derived from shale gas Pt and Cr based catalysts have been commercialized in the Oleflex process and Catofin process respectively as two on purpose propylene synthesis processes The high price of Pt and the environmental concerns of Cr have led to the search for other candidates for propane dehydrogenation Metal cations exchanged inside zeolite have been shown to be efficient catalysts for propane dehydrogenation However identifying the active site in the zeolite remains an unresolved and important issue for new catalyst development

Thermodynamic Study of Propane Dehydrogenation Into Propylene Qurratuaini Hassanusi,2013

Propane Dehydrogenation to Propylene on Metal-containing MFI-type Zeolite Catalysts Chairat Pongtongcharoen,1996

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