



Propane To Propylene Uop Oleflex Process

Robert A. Meyers



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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 **Handbook of Petroleum**

Refining Processes Robert Meyers, 2003-09-23 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 Mobil Shell Exxon UOP and Texaco Covers the very latest technologies in the field of petroleum refining processes Completely updated 3rd Edition features 50% all new material *Hydrocarbon Chemistry* George A. Olah, Árpád Molnár, 2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy Diminishing petroleum supplies regulatory problems and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár the completely revised and expanded Second Edition of *Hydrocarbon Chemistry* provides an unparalleled contemporary assessment of the field presenting basic concepts current research and future applications *Hydrocarbon Chemistry* begins by discussing the general aspects of hydrocarbons the separation of hydrocarbons from natural sources and the synthesis from C1 precursors with recent developments for possible future applications Each successive chapter deals with a specific type of hydrocarbon transformation The Second Edition includes a new section on the chemical reduction of carbon dioxide focusing on catalytic ionic electrocatalytic photocatalytic and enzymatic reductions as well as a new chapter on new catalysts and activation methods combinatorial chemistry and environmental chemistry Other topics covered include Major processes of the petrochemical industry such as cracking reforming isomerization and alkylation Derivation reactions to form carbon heteroatom bonds Hydrocarbon oxidations Metathesis Oligomerization and polymerization of hydrocarbons All chapters have been updated by adding sections on recent developments to review new advances and results Essential reading for practicing scientists in industry polymer and catalytic chemists as well as researchers and graduate students *Hydrocarbon Chemistry* Second Edition remains the benchmark text in its field

Modern Petrochemical Technology Santi Kulprathipanja, James E. Rekoske, Daniel Wei, Robert V. Slone, Trung Pham, Chunqing Liu, 2021-03-30 Modern Petrochemical Technology A text that explores the essence of petrochemicals and petrochemical technology Modern Petrochemical Technology Methods Manufacturing and Applications is a comprehensive resource that provides an overview of the uses for common petrochemical building blocks a review of the marketplaces and offers a survey of the technology used to make the key petrochemical building blocks The book contains both critical information the technologies used to produce petrochemicals how the various petrochemicals are applied in industry and provides illustrative examples and problems designed to reinforce the learning about the basic science engineering and use of petrochemicals The book explores three separate petrochemical building block olefin complexes aromatic complexes and synthesis gas complexes and examines the interconnected nature of these building blocks The authors also include information on the olefins productions using steam cracking paraffin dehydrogenation and methanol to olefins technologies and describes various methods commercial processes to produce aromatics such as benzene toluene and xylene and much more This important book Offers a guide to the critical information on petrochemical producing technologies Includes material on various petrochemicals from the industrial point of view Explores the separation processes membrane technology absorption technology liquid liquid extraction and more Contains material from a team of noted experts Provides a survey of examples of commercialization applications of petrochemicals Written for chemical engineers chemists in industry membrane scientists and process engineers Modern Petrochemical Technology provides an overview of markets and uses for common petrochemical building blocks as well as includes a survey of the technology used to make the key petrochemical building blocks

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into desired products on an industrial scale by applying chemical transformations and other industrial technologies Basics of chemical technology combining chemistry physical transport unit operations and chemical reactors are thoroughly prepared for an easy understanding **Industrial Organic Chemicals** Harold A. Wittcoff, Bryan G. Reuben, Jeffery S. Plotkin, 2004
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