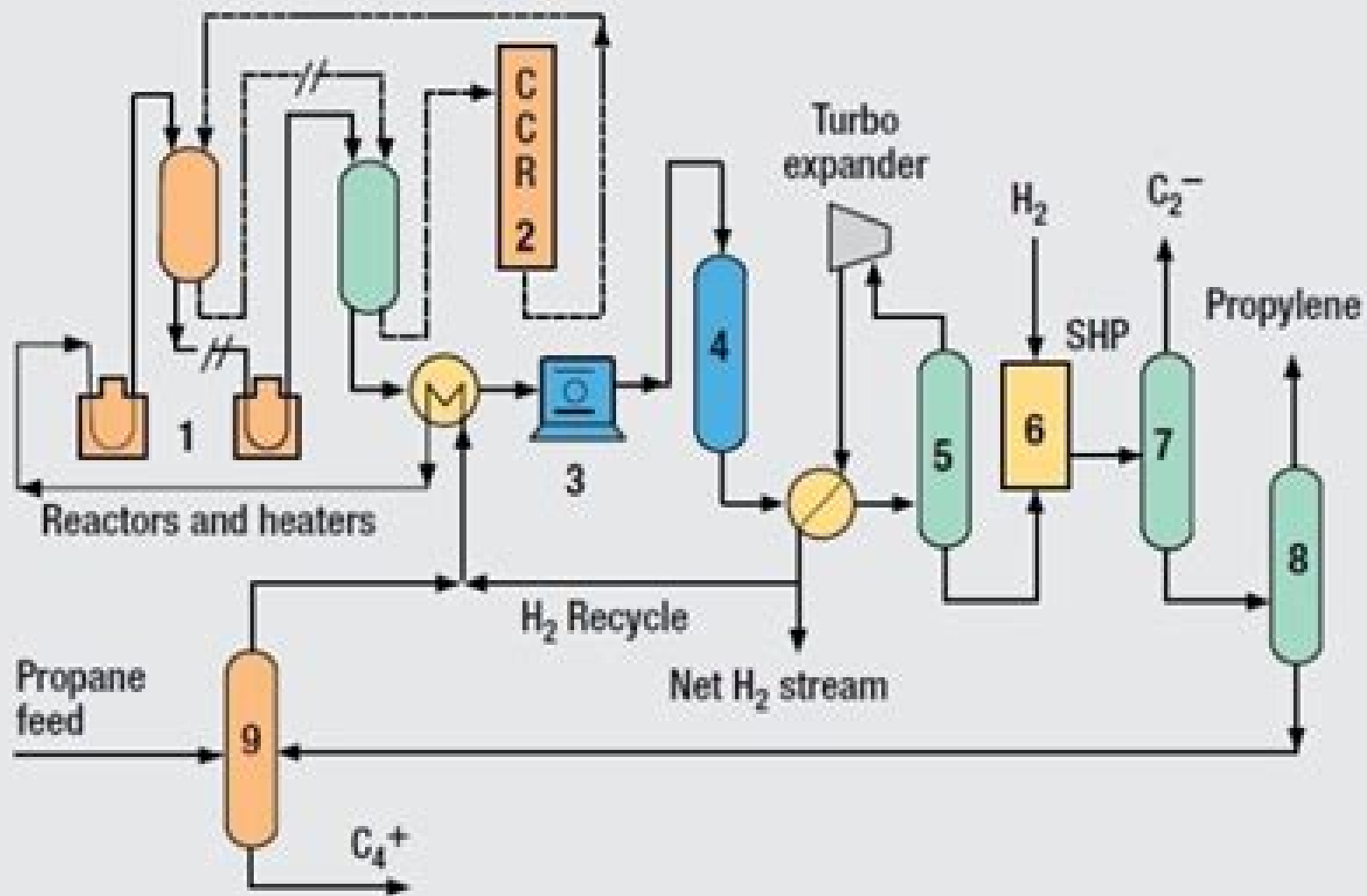




Propane To Propylene Uop Oleflex Process

Robert A. Meyers



Propane To Propylene Uop Oleflex Process:

Propylene Production from Propane - Cost Analysis - Propylene E31A Intratec,2019-09-17 This report presents a cost analysis of Polymer Grade PG Propylene production from propane using a dehydrogenation process The process examined is similar to UOP Oleflex process In this process the dehydrogenation reaction is carried out in a moving bed reactor This report was developed based essentially on the following reference s 1 US Patent 20120108877 issued to UOP in 2012 2 US Patent 5457256 issued to UOP in 1995 Keywords PG Propylene Continuous Catalyst Regeneration CCR Propene PDH On Purpose Propylene Production **Propylene Production Cost Analysis - Overview - Propylene AA01**

Intratec,2016-03-01 This is a free full sample report offered by Intratec Solutions to demonstrate in advance the type of information you will get when you buy one of our reports offering the same standard and structure types of graphs tables and descriptions that you will find in all of our Cost Analysis Overview reports This report presents alternatives for producing PG Propylene from different feedstocks and a cost comparison of these alternatives across different countries More specifically the report compares the costs of PG Propylene production through the following pathways Pathway 1 Propylene Production from Light Naphtha Pathway 2 Propylene Production from Ethylene and Butenes Pathway 3 Propylene Production from Propane with Hydrogen Generation Pathway 1 corresponds to a steam cracker for Propylene production ethylene as co product In Pathway 2 Propylene is produced via metathesis reaction of ethylene with 2 butene present in raffinate 2 feedstock In Pathway 3 propane is dehydrogenated to Propylene with hydrogen generated being valued as fuel The analysis presented in this report includes A comparison of the economic potential of the pathways listed above in several countries comprising Comparative analysis of capital costs Comparative analysis of production costs Comparison between product price and raw materials costs of each pathway An overview of each production pathway including Raw material s consumption figures and product s generated Related technology licensors and block flow diagram of representative industrial processes Keywords Propene Ethene Steam Cracking PDH Propane Dehydrogenation Olefins Conversion Technology OCT *Technology Economics: Propylene Via Propane Dehydrogenation* Intratec,2013-03-26 The growing exploitation of shale gas in the United States raised the propane availability reducing its prices This coupled with growing demand for propylene made of the propane dehydrogenation PDH a promising alternative for on purpose propylene production The technical aspects of a PDH process similar to the Lummus CATOFIN 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 Membranes on Polyolefins Plants Vent Recovery Intratec,2012-08-02 Gas separation by membranes has acquired increasing importance in the petrochemical industry and is now a relatively well established unit operation especially in the monomer recovery of polymer production processes Considering the current tight monomers market polymer degassing steps present potential improvement opportunities through the recovery of vent streams containing monomers The economic analysis presented in this report is based upon the installation of a membrane based propylene recovery unit in a polypropylene plant a unit similar to MTR VaporSep r Such measure was demonstrated to be attractive in the US Gulf Coast due to propylene scarcity which has recently raised its market value The alternative of using such vent streams as fuel showed to be less interesting since fuel prices are low due to natural gas growing offerings About the Publication Program The Improvement Economics Program is a program that provides by way of periodic reports insightful and unbiased reviews on process improvement opportunities from both a technical and economic perspective Each report presents the following topics opportunity description schematics such as flow diagrams technical details such as heat and material balances key performance indicators environmental impact analysis capital and operating costs breakdown alternative solutions overview **Industrial Organic Chemistry** Klaus Weissermel,Hans-Jürgen Arpe,2003 Publisher Description 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

Leveraging Synergies Between Refining and Petrochemical Processes Eberhard Lucke, Edgar Amaro Ronces, 2020-12-15 Leveraging Synergies Between Refining and Petrochemical Processes provides a detailed description of the interfaces and connections between crude oil refining and petrochemicals It offers a view of global and regional markets and economic opportunities for synergies between these sectors Features Shows a global and regional market outlook for crude oil refining and petrochemical sectors Explores economic and market opportunities for taking advantage of the synergies between both sectors Analyzes the technical challenges and opportunities that come with these synergies Gives an outlook and prediction of what companies will be able to achieve in the mid term future Provides introductory and explanatory material as well as in depth insight into future technology and market developments This book serves as a reference for professionals in chemical engineering oil and gas engineering and industrial chemistry It aims to help engineers and industry professionals understand the challenges and the potential benefits of developing expansion or optimization projects that may bridge the gap between refining and petrochemicals

Elements of Petrochemical Engineering Elements of Petrochemical Engineering, Elements of Petrochemical Engineering book is meant for the students teachers and practicing Engineers This book contains the manufacture properties and applications of important petrochemicals Important information s about feedstocks and applications of petrochemical derived products status of Indian Petrochemical Industry and environment standards for the petrochemical plant are given in the appendices It also contains short questions and answers and multiple choice questions and answers drawn from examination papers of various engineering colleges for the benefits of the students The book is targeted to benefit the following Diploma in Engineering Students Degree in Engineering Students AMIE AMIIM AMIICHE students Faculty members and teaching staff Practicing Engineers Professionals Latest and updated informations data statistics pertaining to the subject matter has been included in the edition for the benefit of the readers

Handbook of Petroleum Refining Processes Robert A. Meyers, 2003-10-14 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

Chemical Reaction Technology Dmitry Yu. Murzin, 2022-01-19 The book discusses the sciences of operations converting raw materials 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

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