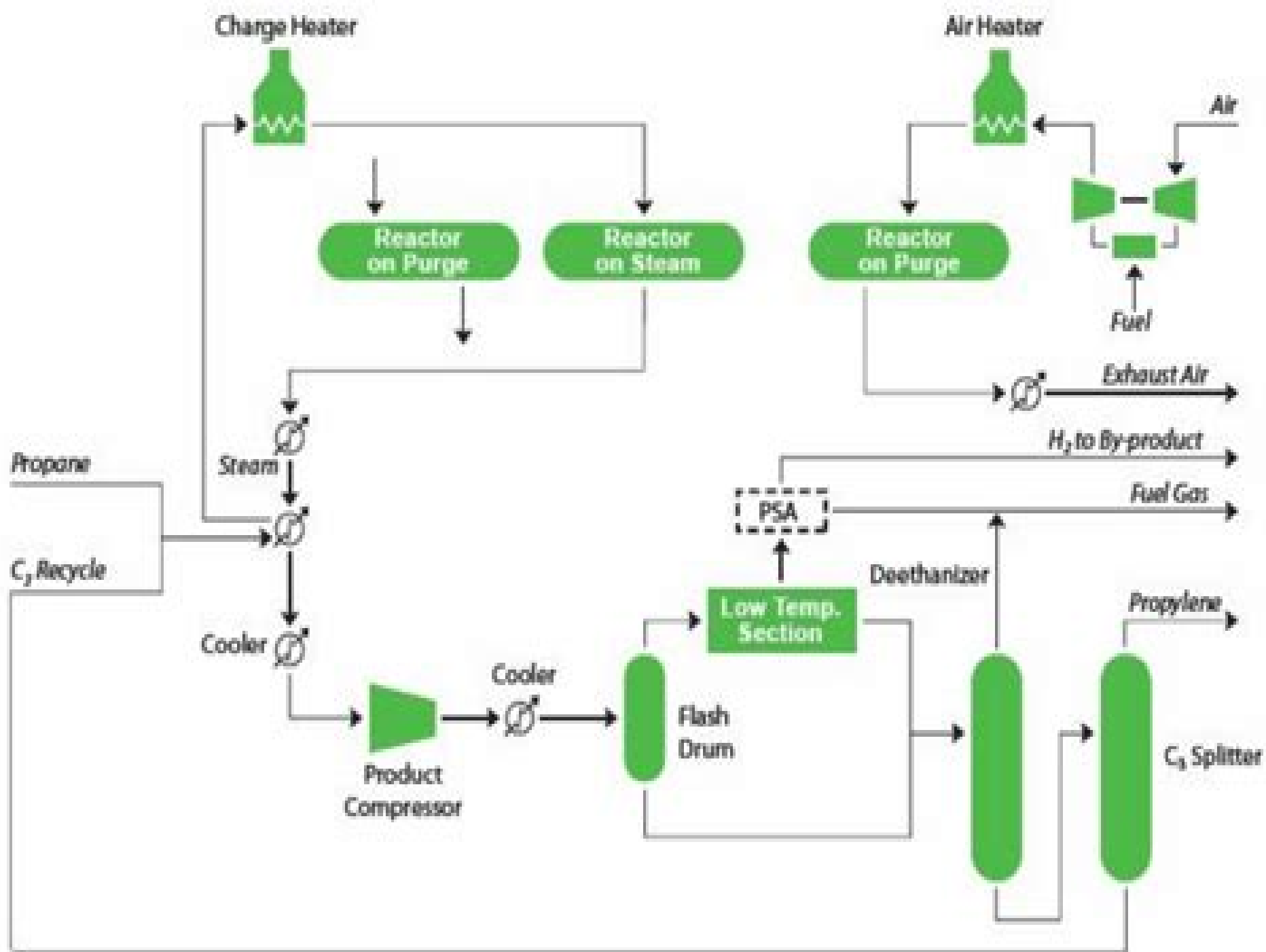




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Sunggyu Lee



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Chemical Reactor Technology for Environmentally Safe Reactors and Products Hugo de Lasa, G. Dogammau, A. Ravella, 2012-12-06 Chemical reactor engineering as a discipline has a central role to play in helping with the development of adequate strategies and technologies that can deal effectively with the concerns of today's society which are increasingly becoming attuned to the environment. The current challenge is how to adapt present processes and products to meet more rigorous environmental standards. *Chemical Reactor Technology for Environmentally Safe Reactors and Products* addresses these issues in three parts: I Fuels of the Future and Changing Fuel Needs; II Alternative Sources; III Emission Control. Chemical Reactor Safety and Engineering Attention is also paid throughout the text to the fundamental technological aspects of reactor engineering and to possible strategies for bridging knowledge gaps. **Industrial Organic Chemistry** Klaus Weissermel, Hans-Jürgen Arpe, 2003 Publisher Description Reaction Kinetics and the Development of Catalytic Processes G.F. Froment, K.C. Waugh, 1999-03-18 The symposium *Reaction Kinetics and the Development of Catalytic Processes* is the continuation of the very successful International Symposium Dynamics of Surfaces and Reaction Kinetics in Heterogeneous Catalysis held in September 1997 in Antwerp, Belgium. These proceedings contain a unique series of top level plenary lectures mainly focused on the dynamics of catalytic surfaces, the interaction of the reacting molecules with the solid catalyst, the elementary steps of reaction pathways and molecular kinetics. Surface science techniques, molecular modeling, transient kinetic studies, sophisticated and specific reactors are included to a growing extent in the kinetic modeling and the development of catalytic processes. How this is practiced today and how it will evolve in the coming years and what benefit can be expected for a more fundamentally based approach is the aim of the symposium. **Catalysis** James J. Spivey, Sanjay K. Agarwal, 2007-10-31 There is an increasing challenge for chemical industry and research institutions to find cost efficient and environmentally sound methods of converting natural resources into fuels, chemicals and energy. Catalysts are essential to these processes and the *Catalysis Specialist Periodical Report* series serves to highlight major developments in this area. This series provides systematic and detailed reviews of topics of interest to scientists and engineers in the catalysis field. The coverage includes all major areas of heterogeneous and homogeneous catalysis and also specific applications of catalysis such as NO_x control, kinetics and experimental techniques such as microcalorimetry. Each chapter is compiled by recognised experts within their specialist fields and provides a summary of the current literature. This series will be of interest to all those in academia and industry who need an up to date critical analysis and summary of catalysis research and applications. *Catalysis* will be of interest to anyone working in academia and industry that needs an up to date critical analysis and summary of catalysis research and applications. *Specialist Periodical Reports* provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading experts in their specialist fields, this series is designed to help the chemistry community keep current with the latest developments in their field. Each volume in the series

is published either annually or biennially and is a superb reference point for researchers www.rsc.org/spr **Chemical Technologies and Processes** Katarzyna Staszak, Karolina Wieszczycska, Bartosz Tylkowski, 2020-07-20 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 Metal Oxide Catalysis, 2 Volume Set S. David Jackson, Justin S. J. Hargreaves, 2008-11-24 With its two volume structure this handbook and ready reference allows for comprehensive coverage of both characterization and applications while uniform editing throughout ensures that the structure remains consistent The result is an up to date review of metal oxides in catalysis The first volume covers a range of techniques that are used to characterize oxides with each chapter written by an expert in the field Volume 2 goes on to cover the use of metal oxides in catalytic reactions For all chemists and engineers working in the field of heterogeneous catalysis **The Changing Landscape of Hydrocarbon Feedstocks for Chemical Production** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, 2016-11-10 A decade ago the U S chemical industry was in decline Of the more than 40 chemical manufacturing plants being built worldwide in the mid 2000s with more than 1 billion in capitalization none were under construction in the United States Today as a result of abundant domestic supplies of affordable natural gas and natural gas liquids resulting from the dramatic rise in shale gas production the U S chemical industry has gone from the world s highest cost producer in 2005 to among the lowest cost producers today The low cost and increased supply of natural gas and natural gas liquids provides an opportunity to discover and develop new catalysts and processes to enable the direct conversion of natural gas and natural gas liquids into value added chemicals with a lower carbon footprint The economic implications of developing advanced technologies to utilize and process natural gas and natural gas liquids for chemical production could be significant as commodity intermediate and fine chemicals represent a higher economic value use of shale gas compared with its use as a fuel To better understand the opportunities for catalysis research in an era of shifting feedstocks for chemical production and to identify the gaps in the current research portfolio the National Academies of Sciences Engineering and Medicine conducted an interactive multidisciplinary workshop in March 2016 The goal of this workshop was to identify advances in catalysis that can enable the United States to fully realize the potential of the shale gas revolution for the U S chemical industry and as a result to help target the efforts of U S researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances This publication summarizes the presentations and discussions from the workshop Encyclopedia of Chemical Processing Sunggyu Lee, 2006 Supplying nearly 350 expertly written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques this second

edition provides gold standard articles on the methods practices products and standards recently influencing the chemical industries New material includes design of key unit operations involved with chemical processes design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment current industry practices and pilot plant design and scale up criteria **Handbook of**

Commercial Catalysts Howard F. Rase, 2016-04-05 Despite the advances in understanding the phenomena that occur on a catalyst surface much of the successful catalyst development and use continues to be half science and half art The art resides in the practical knowledge of experts in the development and use of commercial catalysts it comes with experience Now the background needed to nurture t *Propylene Production from Propane - Cost Analysis - Propylene E32A*

Intratec, 2016-03-01 This report presents a cost analysis of Polymer Grade PG Propylene production from propane using a dehydrogenation process The process examined is similar to CB infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure This report was developed based essentially on the following reference s 1 US Patent 20120014846 issued to Lummus Technology in 2012 2 US Patent 8101541 issued to Sud Chemie in 2012 Keywords PG Propylene Clariant Sud Chemie Propene PDH On Purpose Propylene Production Integrated Chemical Processes Kai Sundmacher, Achim Kienle, Andreas

Seidel-Morgenstern, 2006-03-06 This is the first book dedicated to the entire field of integrated chemical processes covering process design analysis operation and control of these processes Both the editors and authors are internationally recognized experts from different fields in industry and academia and their contributions describe all aspects of intelligent integrations of chemical reactions and physical unit operations such as heat exchange separational operations and mechanical unit operations As a unique feature the book also introduces new concepts for treating different integration concepts on a generalized basis Of great value to a broad audience of researchers and engineers from industry and academia **Reactive**

Separation Processes Kulprathipanja, 2019-01-15 This book summarizes the available information in six known areas of reactive separation reaction distillation reaction extraction reaction absorption reaction adsorption reaction membrane and reaction crystallization Encyclopedia of Chemical Processing (Online) Sunggyu Lee, 2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques This

collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit operations involved with chemical processes the design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies and energy and environmental issues Authoritative contributions cover chemical processing equipment engineered systems and laboratory apparatus currently utilized in the field It also presents expert overviews on key engineering science topics in property predictions measurements and analysis novel materials and devices and emerging chemical fields ALSO AVAILABLE ONLINE This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

Membrane Reactor Engineering Angelo Basile, Marcello De Falco, Gabriele Centi, Gaetano Iaquaniello, 2016-08-22 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 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 Crude Oil Refining Marcio Wagner da Silva, 2022-10-04 This book provides an overview of crude oil refining processes and presents a deep analysis of the current context and challenges imposed on players in the downstream industry Crude Oil Refining A

Simplified Approach covers traditional processes of the refining industry the impact of current trends and technological routes available to help these players survive in a highly competitive environment FEATURES Offers a simplified approach to crude oil refining processes Discusses economic information related to the downstream business including refining margins and profitability Introduces newer trends in the industry such as petrochemical integration crude to chemicals refineries and renewables coprocessing in crude oil refineries Presents the challenges related to these new trends and offers technological solutions to overcome them for profitable and sustainable operations Describes how the use of biofuels can minimize the environmental impact of transportation fuel in nations of high demand like Brazil Offering a contemporary view of current challenges and opportunities in the downstream oil and gas business this practical book is aimed at readers working in the fields of petroleum and chemical engineering

Chemical Process Technology Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2013-03-21 With a focus on actual industrial processes e g the production of light alkenes synthesis gas fine chemicals polyethene it encourages the reader to think out of the box and invent and develop novel unit operations and processes Reflecting today s emphasis on sustainability this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification The second edition includes New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries e g synthesis loop designs Sasol I Plant Kaminsky catalysts production of Ibuprofen click chemistry ammonia synthesis fluid catalytic cracking Questions throughout to stimulate debate and keep students awake Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology Second Edition is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject It will be invaluable to students of chemical engineering biotechnology and industrial chemistry as well as practising chemical engineers From reviews of the first edition The authors have blended process technology chemistry and thermodynamics in an elegant manner Overall this is a welcome addition to books on chemical technology The Chemist Impressively wide ranging and comprehensive an excellent textbook for students with a combination of fundamental knowledge and technology Chemistry in Britain now Chemistry World

Catalysis for Clean Energy and Environmental Sustainability K. K. Pant, Sanjay Kumar Gupta, Ejaz Ahmad, 2021-04-01 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

Chemical Technology Andreas Jess, Peter

Wasserscheid, 2020-04-06 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field Clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well This new edition of Chemical Technology From Principles to Products features a new chapter illustrating the global economic map and its development from the 15th century until today and another on energy consumption in human history Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined Chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste The book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes Intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology Fully updated with new content on power to X and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering

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