

Chemistry of **PETROCHEMICAL PROCESSES**

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Sami Matar
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Sami Matar Ph D, Lewis F. Hatch Ph. D.



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Catalysis in Petrochemical Processes M.S. Matar, M.J. Mirbach, H.A. Tayim, 2012-12-06 The field of petrochemicals started some years ago with the simple addition reaction of water to propylene for the production of isopropyl alcohol Currently the petrochemical industry has become a multi billion dollar enterprise which encompasses a wide field of chemical products Almost all the basic organic reactions such as hydrogenation alkylation substitution polymerization etc are utilized for the production of these chemicals It may not however have been possible to establish this huge industry without the use of different catalysts In other words the great advancements in the catalytic area have supported the vast developments in the petrochemical field In this book we have adopted the idea of discussing the petrochemical industry from the point of view of reactants activities and susceptibilities toward different catalysts The book is thus classified according to the reaction type This will eriable students and other users of the book to base their understanding of the petrochemical field on the fundamental principles learned in chemistry How ever the first chapter is aimed at establishing some basic facts on the petro chemical industry and its major uses It discusses without going into details the raw materials used the intermediates and the downstream products The next eight chapters discuss in some detail the main reactions and the catalysts used for the production of chemicals and polymers from petroleum The last chapter is devoted to a discussion of some of the practical techniques used in the catalytic field

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Bajus,2019-12-24 A comprehensive textbook on petrochemical conversion processes for petroleum and natural gas fractions as produced by refinery operations This innovative textbook provides essential links between the chemical sciences and chemical technology between petrochemistry and hydrocarbon technology The book brings alive key concepts forming the basis of chemical technology and presents a solid background for innovative process development In all chapters the processes described are accompanied by simplified flow schemes encouraging students to think in terms of conceptual process designs *Petrochemistry Petrochemical Processing Hydrocarbon Technology and Green Engineering* introduces students to a variety of topics related to the petrochemical industry hydrocarbon processing fossil fuel resources as well as fuels and chemicals conversion The first chapter covers the fundamentals and principles for designing several of the processes in the book including discussions on thermodynamics chemical kinetics reactor calculations and industrial catalysts The following chapters address recent advances in hydrocarbon technology energy technology and sources of hydrocarbons The book then goes on to discuss the petrochemical industry based on four basic pillars all derived from petroleum and natural gas Production of lower alkenes other sources of lower alkenes petrochemicals from C2 C3 alkenes Production of BTX aromatics chemicals from BTX aromatics C1 technology Diversification of petrochemicals The growing importance of sustainable technology process intensification and addressing greenhouse gas emissions is reflected throughout the book Written for advanced students working in the areas of petrochemistry hydrocarbon technology natural gas energy materials and technologies alternative fuels and recycling technologies the book is also a valuable reference for industrial practitioners in the oil and gas industry **Handbook of Petrochemical Processes** James G.

Speight,2019-06-13 The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers The purpose of this book is not only to provide a follow on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process Following from the introductory chapters this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Provides readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum based hydrocarbons into the chemicals that form the basis of the multi billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry including an overview of the coal chemicals industry

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

Petrochemical Processes.... Alain Chauvel,Gilles Lefebvre,2001 Contents 1 Hydrogen synthesis gases and their derivatives 2 Sources of olefinic and aromatic hydrocarbons 3 The treatment of olefinic C4 and C5 cuts 4 The treatment of aromatic gasolines 5 Acetylene 6 Monomers for the synthesis of elastomers Bibliography Index

Handbook of Petrochemicals Production Processes Robert A. Meyers,2004-12-02 Chemicals and the process used to produce them are a billion dollar business Written by experts from major international petrochemical licensing firms this innovative handbook details the latest and most powerful chemical processes used to create the most economically important chemicals in the world

Handbook of Industrial Hydrocarbon Processes James G. Speight,2019-11-21 Handbook of Industrial Hydrocarbon

Processes Second Edition provides an analysis of the process steps required to produce hydrocarbons from various raw materials and how the choice of a process depends not only on technology but also on external effects such as social and economic developments political factors affecting the availability of raw materials and environmental legislation This book qualitatively examines chemical processes and plant design by showing the factors determining process structures including the underlying chemistry feedstock product specifications and reactor design The book also compares the processes for different products based on raw materials and manufacturing processes based on their respective applications With the addition of useful flowcharts that present an overview of the chemical processes process design and equipment this book is a valuable resource to industry professionals on how to understand how hydrocarbons are produced from different raw materials and how to develop an instinct for the right process development strategy Provides a qualitative analysis of chemical processes and plant design by showing the factors determining process structures Presents chemical processes in an organized easy to read and understandable manner with the use of useful flowcharts and concise descriptions Includes updates on changes in existing technological and chemical processes as well as possible future improvements or changes to other more economic or more readily available feedstocks

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