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*Handbook of Petrochemicals Production Processes by Robert ...*

Supported by some of the largest petrochemical and petroleum companies in the world, this unique handbook provides the secrets to the latest in licensed petrochemical technology for some of the most economically important chemicals used throughout the world. Process chemistry and thermodynamics are covered for each major processing unit as applicable.

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A Study on Energy Efficiency Index in Petrochemical Industry. Department of Alternative Energy Development and Efficiency (DEDE) A Study on Energy Efficiency Index in Petrochemical Industry. Petrochemical Industry is one of the most important primary industries to Thailand's economic development. It is the foundation of wide variety of industrial production processes such as plastic and container industry, textile industry, rubber industry,

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Handbook of agricultural and fertilizer industry.

## *Petrochemical Industry*

For more than 65 years, the Petrochemical Processes Handbook has been a definitive resource for processing technologies used in the global petrochemical industry. This well-resourced handbook contains flow diagrams and detailed descriptions for more than 200 leading-edge, licensed petrochemical technologies.

## *2018 Petrochemical Processes Handbook*

Part one of the seminar program focuses on one of the core building blocks of the petrochemical industry; ethylene and its derivatives. Sectors covered include; 1) Ethylene Plants, 2) Ethyl Benzene / Styrene Plants, 3) Ethylene Oxide / Glycol Plants, 4) Vinyl Chloride Plants, 5) Ethanolamine Plants and 6) other Ethylene Derivatives. Part two of the seminar program focus on a second core building block of the petrochemical industry; aromatics and its derivatives.

Supported by some of the largest petrochemical and petroleum companies in the world, this unique handbook provides the secrets to the latest in licensed petrochemical technology for some of the most economically important chemicals used throughout the world Process chemistry and

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thermodynamics are covered for each major processing unit as applicable.

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.

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



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Handbooks  
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)

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

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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

First published in 1991, this volume responds to the major changes in the petrochemical industry over the previous decade due to increases in raw material costs, improvements in process efficiency and the increasing importance now being placed on environmental issues. The Handbook of Petrochemicals and Processes provides comprehensive, up to date information on 76 petrochemicals and their processes, giving details of the chemical reactions involved in transforming raw materials, such as olefins and aromatics, into chemicals, plastics and synthetic fibres. The competing processes for each product including the latest technical developments are described, with their feedstock requirements, catalysts and conversion rates compared. Many of the processes are illustrated with clear flow diagrams. The book is easy to use with the products arranged in alphabetical order. Within each chapter on the individual

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products there are details of the physical characteristics and properties; grades available; handling; transportation; health and safety aspects and lists of the major manufacturers and licensors The Handbook of Petrochemicals and Processes gathers together in one volume, all the commonly sought chemical information. It will prove an invaluable source of reference for industrial chemists, chemical engineers, and industry professionals, as well as librarians and information centres concerned with the petrochemical industry.

Written by an author with over 38 years of experience in the chemical and petrochemical process industry, this handbook will present an analysis of the process steps used to produce industrial hydrocarbons from various raw materials. It is the first book to offer a thorough analysis of external factors effecting production such as: cost, availability and environmental legislation. An A-Z list of raw materials and their properties are presented along with a commentary regarding their cost and availability. Specific processing operations described in the book include: distillation, thermal cracking and coking, catalytic methods, hydroprocesses, thermal and catalytic reforming, isomerization, alkylation processes, polymerization processes, solvent processes, water removal, fractionation and acid gas removal. Flow

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diagrams and descriptions of more than 250 leading-edge process technologies An analysis of chemical reactions and process steps that are required to produce chemicals from various raw materials Properties, availability and environmental impact of various raw materials used in hydrocarbon processing

In Chemistry of Petrochemical Processes, readers find a handy and valuable source of information containing insights into petrochemical reactions and products, process technology, and polymer synthesis. The book reviews and describes the reactions and processes involved in transforming petroleum-based hydrocarbons into the chemicals that form the basis of the multi-billion dollar petrochemical industry. In addition, the book includes information on new process developments for the production of raw materials and intermediates for petrochemicals that have surfaced since the book's first edition. Provides a quick understanding of the chemical reactions associated with oil and gas processing Contains insights into petrochemical reactions and products, process technology, and polymer synthesis

\* Offers detailed description of process chemistry and thermodynamics and product by-

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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 \*

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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,

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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.

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