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## *Petrochemicals Production Processes*

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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, agricultural and fertilizer industry.

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## *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.

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

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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

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



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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 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

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Handbook  
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 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-

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Handbook of Petrochemicals  
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.

Handbook of Chemical Technology and Pollution Control integrates industrial chemistry with pollution control and environmental chemistry. This unified approach provides practicing professionals and consultants with a concise yet authoritative handbook covering the Key Features, relative importance, and environmental impact of currently operating chemical processes. It also meets the critical needs of students training for industrial careers. Handbook of Chemical Technology and Pollution Control considers community, municipal, power generation, industrial, and transportation components of environmental impact. The book covers the major inorganic and organic commodity chemicals; aluminum, iron and steel, and copper production; pulp and paper; fermentation; petroleum production and refining. It also includes key topics and

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Handbook  
process details for major peterochemicals and large-scale consumer and engineering polymers. This single, convenient volume describes aspects of recycling at the industrial and post-consumer levels, and emphasizes a quantitative approach as used in the author's well-known lifecycle work with disposable and reusable cups.

0-12-350811-8Key Features \* Covers historical background and new developments in a single, authoritative handbook \* Presents integrated treatment of chemical technology with emission control chemistry \* Includes tables throughout that give current and trend data \* Considers community, municipal, power generation, industrial, and transportation components of environmental impact \* Provides many references to further reading \* Contains review questions that offer working experience with the information and concepts

This extensively updated second edition of the already valuable reference targets research chemists and engineers who have chosen a career in the complex and essential petroleum industry, as well as other professionals just entering the industry who seek a comprehensive and accessible resource on petroleum processing. The handbook describes and discusses the key components and processes that make up the petroleum refining industry. Beginning with the basics of crude oils and their nature, it continues with the commercial products derived from

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refining and with related issues concerning their environmental impact. More in depth coverage of many topics previously covered in the first edition, such as hydraulic fracturing or fracking as it is often termed, help ensure this reference remains a relevant and up-to-date resource. At its core is a complete overview of the processes that make up a modern refinery, plus a brief history of the development of processes. Also described in detail are design techniques, operations and in the case of catalytic units, the chemistry of the reaction routes. These discussions are supported by calculation procedures and examples, which enable readers to use today's simulation-software packages. The handbook also covers off-sites and utilities, as well as environmental and safety aspects relevant to the industry. The chapter on refinery planning covers both operational planning and the decision making procedures for new or revamped processes. Major equipment used in the industry is reviewed along with details and examples of the process specifications for each. An extensive glossary and dictionary of the terms and expressions used in petroleum refining, plus appendices supplying data such as converging factors and selected crude oil assays, as well as an example of optimizing a refinery configuration using linear programming are all included to aid the reader. The 2nd edition of the Handbook of Petroleum Processing is an indispensable desk

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Handbooks reference for chemists and engineers as well as an essential part of the libraries of universities with a chemical engineering faculty and oil refineries and engineering firms performing support functions or construction.

\* 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 \*

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