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The petrochemical industry is a scientific and engineering field that

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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

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Handbooks 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,

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In Chemistry of Petrochemical Processes, readers find a handy and valuable source of information containing insights into

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Handbook of 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

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Handbooks 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

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Handbook commercial products derived from 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

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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

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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, 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

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Handbooks discusses in detail catalytic and adsorbent materials, reaction and separation mechanisms.

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