

Petroleum Refinery Process Economics

Robert A. Meyers

Petroleum Refinery Process Economics

Petroleum Refinery Process Economics Robert E. Maples,2000 Maples presents an organized look at yield data and properties of products from refinery processes how to use this information in performing various process economics studies and discusses operating and capital costs for economic evaluation of both single processes and complete refineries Yield correlations are presented for all of the important commercially established petroleum refinery processes each accompanied by operating requirements and capital cost of a typical unit Here the user has all of the information required to perform a preliminary economic evaluation For each process yield correlation a simplified process flow diagram and brief process description is given

Contents Correlation methodology Crude oils hydrocarbons and refinery products Refinery processing overview Energy resources and transportation fuels The environment and the refinery Crude oil and residual oil processing Solvent deasphalting Visbreaking and aquaconversion Delayed coking Fluid coking flexicoking Heavy distillate processing Fluid catalytic and heavy oil cracking Hydrocracking Hydrotreating Light distillate processing Naphtha desulfurization Catalytic reforming Light hydrocarbon processing Isomerization Alkylation Catalytic polymerization and dehydration Oxygenates Treating and other auxiliary processes Aromatics extraction Hydrogen manufacture Sour water stripping Sweetening Acid gas removal Sulfur recovery Tail gas cleanup Water treatment and waste disposal Blending Process

economics Economics **Petroleum Refinery Process Economics** Robert E. Maples,1993 Designed to present the reader with an organized look at the yield data for refinery processes and how to use this information in performing process economic studies of various types *Petroleum refinery process economics* Robert E. Maples,1993

Petroleum Refining James H. Gary,Glenn E. Handwerk,Mark J. Kaiser,2007-03-05 Petroleum refiners must face billion dollar investments in equipment in order to meet ever changing environmental requirements Because the design and construction of new processing units entail several years lead time refiners are reluctant to commit these dollars for equipment that may no longer meet certain conditions when the units come on stream Written by experts with both academic and professional experience in refinery operation design and evaluation Petroleum Refining Technology and Economics Fifth Edition is an essential textbook for students and a vital resource for engineers This latest edition of a bestselling text provides updated data and addresses changes in refinery feedstock product distribution and processing requirements resulting from federal and state legislation Providing a detailed overview of today s integrated fuels refinery the book discusses each major refining process as they relate to topics such as feedstock preparation operating costs catalysts yields finished product properties and economics It also contains end of chapter problems and an ongoing case study Petroleum Refining Mark J. Kaiser,Arno de Klerk,James H. Gary,Glenn E. Handwerk,2019-09-11 For four decades Petroleum Refining has guided thousands of readers toward a reliable understanding of the field and through the years has become the standard text in many schools and universities around the world offering petroleum refining classes for self study training and as a reference for industry

professionals The sixth edition of this perennial bestseller continues in the tradition set by Jim Gary as the most modern and authoritative guide in the field Updated and expanded to reflect new technologies methods and topics the book includes new discussion on the business and economics of refining cost estimation and complexity crude origins and properties fuel specifications and updates on technology process units and catalysts The first half of the book is written for a general audience to introduce the primary economic and market characteristics of the industry and to describe the inputs and outputs of refining Most of this material is new to this edition and can be read independently or in parallel with the rest of the text In the second half of the book a technical review of the main process units of a refinery is provided beginning with distillation and covering each of the primary conversion and treatment processes Much of this material was reorganized updated and rewritten with greater emphasis on reaction chemistry and the role of catalysis in applications Petroleum Refining Technology Economics and Markets is a book written for users the practitioners of refining and all those who want to learn more about the field **Petroleum Refining Processes** James G. Speight, Baki Ozum, 2001-10-31 This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion It illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur feedstocks **Petroleum Refining Design and Applications Handbook, Volume 1** A. Kayode Coker, 2018-09-05 There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists engineers technicians and operators to stay current With so many changes over the last few decades in equipment and processes petroleum refining is almost a living document constantly needing updating With no new refineries being built companies are spending their capital re tooling and adding on to existing plants Refineries are like small cities today as they grow bigger and bigger and more and more complex A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes This book is the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world's foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area

Model-Based Optimization for Petroleum Refinery Configuration Design Cheng Seong Khor, 2024-01-03 Model Based Optimization for Petroleum Refinery Configuration Design An accessible easy to read introduction to the methods of mixed integer optimization with practical applications real world operational data and case studies Interest in model based approaches for optimizing the design of petroleum refineries has increased throughout the industry in recent years Mathematical optimization based on mixed integer programming has brought about the superstructure optimization method for synthesizing petroleum refinery configurations from multiple

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Handbook of Petroleum Refining Processes Robert Allen Meyers, 1986 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. Completely updated 3rd Edition features 50% all new material.

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Economic Impact of EPA's Regulations on the Petroleum Refining Industry Sobotka & Co, 1976

Economic Analysis of Interim Final Pretreatment Standards for the Petroleum Refining Industry ; [Sobotka & Company, Inc.] United States. Environmental Protection Agency. Office of Water Planning and Standards, 1977

Petroleum Refining Industry Marshall Sittig, 1978

Cogeneration Technology and Economics for the Process Industries D. J. De Renzo, 1983

Petroleum (refinery processes) to poisons, economic , 1968

Economics of Petroleum Refinement Roshdy Ebrahim, 2019-10-02

petroleum refining is the separation of petroleum into fractions and the subsequent treating of these fractions to yield marketable products. In fact a refinery is essentially a group of manufacturing plants which vary in number with the variety of products produced. Refinery processes must be selected and products manufactured to give a balanced operation in which petroleum is converted into a variety of products in amounts that are in accord with the demand for each. For example the manufacture of products from the lower boiling portion of petroleum automatically produces a

certain amount of higher boiling components If the latter cannot be sold as say heavy fuel oil these products will accumulate until refinery storage facilities are full To prevent the occurrence of such a situation the refinery must be flexible and be able to change operations as needed This usually means more processes thermal processes to change an excess of heavy fuel oil into more gasoline with coke as the residual product or a vacuum distillation process to separate the heavy oil into lubricating oil stocks and asphalt The gas and gasoline cuts form the lower boiling products and are usually more valuable than the higher boiling fractions and provide gas liquefied petroleum gas naphtha aviation fuel motor fuel and feedstocks for the petrochemical industry Naphtha a precursor to gasoline and solvents is extracted from both the light and middle range of distillate cuts and is also used as a feedstock for the petrochemical industry The middle distillates refer to products from the middle boiling range of petroleum and include kerosene diesel fuel distillate fuel oil and light gas oil Waxy distillate and lower boiling lubricating oils are sometimes included in the middle distillates The remainder of the crude oil includes the higher boiling lubricating oils gas oil and residuum the nonvolatile fraction of the crude oil The residuum can also produce heavy lubricating oils and waxes but is more often used for asphalt production The complexity of petroleum is emphasized insofar as the actual proportions of light medium and heavy fractions vary significantly from one crude oil to another In the early days of the twentieth century refining processes were developed to extract kerosene for lamps Any other products were considered unusable and were usually discarded Thus first refining processes were developed to purify stabilize and improve the quality of kerosene However the invention of the internal combustion engine led at about the time of World War I to a demand for gasoline for use in increasing quantities as a motor fuel for cars and trucks This demand on the lower boiling products increased particularly when the market for aviation fuel developed Thereafter refining methods had to be constantly adapted and improved to meet the quality requirements and needs of car and aircraft engines

Technical Progress and Profits John Lawrence Enos, 2002 Throughout the twentieth century the technology employed by the petroleum refining industry has been advancing rapidly yet it has generally escaped study Whatever the explanation for its scholarly neglect the advances that have been secured over the century have enabled the producers of petroleum products to meet the ever increasing demands for their products throughout the world No other manufactured goods are so universally and so cheaply available This book concentrates on the technical changes that have been secured in the second half of this century using as its basis the main petroleum refining process Fluid Catalytic Cracking Both technological and economic aspects are examined over the sixty years of the process's history and in a novel attempt related the one to the other an accomplishment that reveals more about the technology and the economics rather than either engineering or economic analysis would separately Technology and economics are connected in the real world in this study they are connected in their exposition As in conventional economic history technological improvements are summarized and their sources and consequences determined In addition the long term pattern of costs and profits is displayed and regular measurements are taken

throughout so that experience can be seen as the continuous unfolding of industrial progress **Petroleum Refining** James H. Gary, Glenn E. Handwerk, 1984 **Petroleum Refining** James H. Gary, Glenn E. Handwerk, 1994 This third edition presents the latest developments in the fundamental aspects of petroleum refining technology and economics discussing both the physical and chemical properties of petroleum products and oxygenate fuel additives It examines current environmental requirements and downstream implications of the Clean Air Act regarding processing fuels and product specifications End of chapter problems a case study and sample illustrations are included

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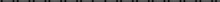
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