



PETROLEUM REFINERY PROCESS ECONOMICS

2nd Edition

Petroleum Refinery Process Economics Petroleum Refinery Process Economics

Duncan Seddon

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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 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

Fundamentals of Petroleum Refining
Mohamed A. Fahim, Taher A. Al-Sahhaf, Amal Elkilani, 2009-11-19 Fundamentals of Petroleum Refining presents the fundamentals of thermodynamics and kinetics and it explains the scientific background essential for understanding refinery operations The text also provides a detailed introduction to refinery engineering topics ranging from the basic principles and unit operations to overall refinery economics The book covers important topics such as clean fuels gasification biofuels and environmental impact of refining which are not commonly discussed in most refinery textbooks Throughout the source problem sets and examples are given to help the reader practice and apply the fundamental principles of refining Chapters 1-10 can be used as core materials for teaching undergraduate courses The first two chapters present an introduction to the petroleum refining industry and then focus on feedstocks and products Thermophysical properties of crude oils and petroleum fractions including processes of atmospheric and vacuum distillations are discussed in Chapters 3 and 4 Conversion processes product blending and alkylation are covered in chapters 5-10 The remaining chapters discuss hydrogen production clean fuel production refining economics and safety acid gas treatment and removal and methods for environmental and effluent treatments This source can serve both professionals and students on undergraduate and graduate levels of Chemical and Petroleum Engineering Chemistry and Chemical Technology Beginners in the engineering field specifically in the oil and gas industry may also find this book invaluable Provides balanced coverage of fundamental and operational topics Includes spreadsheets and process simulators for showing trends and simulation case studies Relates processing to planning and management to give an integrated picture of refining

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 topological alternatives Model Based Optimization for Petroleum Refinery Configuration Design presents a detailed introduction to the use of mathematical optimization to solve both linear and nonlinear problems in the refining industry The book opens with an overview of petroleum refining processes basic concepts in mathematical programming and applications of mathematical programming for refinery optimization Subsequent chapters address superstructure representations of topological alternatives mathematical formulation solution strategies and various modeling frameworks Practical case studies demonstrate refinery configuration design refinery retrofitting and real world issues and considerations Presents linear nonlinear and mixed integer programming approaches applicable to both new and existing petroleum refineries Highlights the benefits of model based solutions to refinery configuration design problems Features detailed case studies of the development and implementation of optimization models Discusses economic considerations of heavy oil processing including cash flow analysis of refinery costs and return on capital Includes numerical examples based on real world operational data and various commercial technologies Model Based Optimization for Petroleum Refinery Configuration Design is an invaluable resource for researchers chemical engineers process and energy engineers other refining professionals and advanced chemical engineering students Fuels and Lubricants Handbook , **Petroleum**

Refining Design and Applications Handbook, Volume 1 A. Kayode Coker, 2018-08-09 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 retooling 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 Handbook of Petroleum Refining James G. Speight, 2016-10-26 Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the

environment **product guide SUMMER 2008** , **Hydrogen Economy, The: Fundamentals, Technology, Economics** Duncan Seddon, 2022-04-19 The Hydrogen Economy is very broad subject ranging from the potential use of hydrogen for domestic use to the mass production of hydrogen replacing coal natural gas LNG and conventional transport fuels For any given project there are many alternatives to consider for each stage of making storing and transporting hydrogen The book aims to assist proponents and financiers of hydrogen projects to identify the optimum alternatives and identify hurdles and approaches to overcome them This book attempts to describe an optimum approach to implement and its cost It sets out to identify hurdles to implementation which may not be apparent to those entering the field for the first time The book covers the various means and costs of production from fossil fuels with carbon capture blue hydrogen electrolysis green hydrogen or biomass The book covers hydrogen storage as liquid or compressed gas and transport through pipelines as liquid or by an intermediary fluid such as ammonia or a hydrocarbon The book also discusses the production and costs of hydrogen delivery at the user end of a logistics chain It also compares the relative energy value of energy delivered hydrogen versus the current suite of conventional fuels *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 **Energy Storage Systems - Volume II** Yalsin Gogus, 2009-09-30 Energy Storage Systems theme is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into six different topics which represent the main scientific areas of the theme The first topic Rationale of Energy Storage and Supply Demand Matching is devoted to the discussion of essential concepts and the most important aspects of the optimization establishment and operation of energy storage systems based on six cases as examples The succeeding four topics are Storage of Thermal Energy Mechanical Energy Storage Storage of Electrical Energy Storage of Chemical Energy and Nuclear Materials Each of these consists of a topic chapter emphasizing the general aspects and various subject articles explaining the background theory and practice of a specific type of energy storage of that topic The last topic is transport of energy with emphasis on hydrogen as future energy carrier It contains detailed review of other modes of energy transport and discussion of environmental effects Fundamentals and applications of characteristic methods are presented in these volumes These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs The Cost of Clean Water and Its Economic Impact United States. Federal Water Pollution Control Administration, United States. Environmental Protection Agency, 1968 **Petroleum Economics and Engineering** Hussein K. Abdel-Aal, Mohammed A. Alsahlawi, 2013-12-14 This book explains how to apply economic analysis to the evaluation of

engineering challenges in the petroleum industry Discussion progresses from an introduction to the industry through principles and techniques of engineering economics to the application of economic methods Packed with real world examples and case studies demonstrating how to

Economics of Dependence on Foreign Oil United States. Congress. House. Select Committee on Energy Independence and Global Warming, 2010

Heavy Oil Recovery and Upgrading James G. Speight, 2019-03-05 Heavy Oil Recovery and Upgrading covers properties factors methods and all current and upcoming processes giving engineers new and experienced the full spectrum of recovery choices including SAGD horizontal well technology and hybrid approaches Moving on to the upgrading and refining of the product the book also includes information on in situ upgrading refining options and hydrogen production Rounding out with environmental effects management methods on refinery waste and the possible future configurations within the refinery this book provides engineers with a single source to make decisions and manage the full range of challenges

Mixing Process Technology Kishore Kar, Richard Cope, Juergen Lueske, 2025-07-31 Industrial mixing processes often present multiple optimization challenges to producing desirable products The resulting processes must be cost effective first time right and frequently the designated most effective technology for the global manufacture of specific products *Mixing Process Technology A Guide to Industrial Applications* shares the authors extensive knowledge of mixing research and industrial practice It features 20 industrial mixing chapters that are purposely light on mixing fundamentals while heavy on practical mixing applications for practical process design and manufacturing This text serves as an applied guide to industrial mixing for practitioners who want brief explanations of mixing concepts with real life examples and software to help perform associated design calculations This book also Offers side by side discussion of mixing systems including impellers and rotor stators as offered by several major manufacturers Describes the authors innovative mixer designs to meet manufacturing needs Includes a chapter by a mixer manufacturing representative describing design sizing and expensing of industrial mixers Presents a chapter by a mixing equipment manufacturing leader that explains mechanical design considerations in clear terms Contains a chapter on emerging mixing technologies including mixing via resonant acoustics and controlled cavitation Discusses computational fluid dynamics in mixing with multiple practical examples by a contributing author from a leading pharmaceutical company Includes Excel based mixing worksheets throughout book examples and Excel based input output mixit io interface hosted on the publisher s website This book is aimed at chemical and process engineers as well as students seeking to understand industrial mixing technology

Enhanced Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2013-11-25 Recent oil price fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand bitumen resources With conventional production steadily declining advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer A practical guide on heavy oil related recovery methods is essential for all involved in heavy oil production To feed this demand James Speight a well respected scientist and author

provides a must read for all scientists engineers and technologists that are involved in production enhancement In Enhanced Recovery Methods for Heavy Oil and Tar Sands Speight provides the current methods of recovery for heavy oil and tar sand bitumen technology broken down by thermal and non thermal methods An engineer graduate student or professional working with heavy oil upcoming and current will greatly benefit from this much needed text **Economic Analysis of Oil and Gas Engineering Operations** Hussein K. Abdel-Aal,2021-02-25 Engineers seek solutions to problems and the economic viability of each potential solution is normally considered along with the technical merits This is typically true for the petroleum sector which includes the global processes of exploration production refining and transportation Decisions on an investment in any oil or gas field development are made on the basis of its value which is judged by a combination of a number of economic indicators Economic Analysis of Oil and Gas Engineering Operations focuses on economic treatment of petroleum engineering operations and serves as a helpful resource for making practical and profitable decisions in oil and gas field development Reflects major changes over the past decade or so in the oil and gas industry Provides thorough coverage of the use of economic analysis techniques in decision making in petroleum related projects Features real world cases and applications of economic analysis of various engineering problems encountered in petroleum operations Includes principles applicable to other engineering disciplines This work will be of value to practicing engineers and industry professionals managers and executives working in the petroleum industry who have the responsibility of planning and decision making as well as advanced students in petroleum and chemical engineering studying engineering economics petroleum economics and policy project evaluation and plant design

The Enigmatic Realm of **Petroleum Refinery Process Economics Petroleum Refinery Process Economics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Petroleum Refinery Process Economics Petroleum Refinery Process Economics** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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