



# PETROLEUM REFINERY PROCESS ECONOMICS

2<sup>nd</sup> Edition

# Petroleum Refinery Process Economics Petroleum Refinery Process Economics

**Cheng Seong Khor**



## **Petroleum Refinery Process Economics 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 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

**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 **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

**Fuels and Lubricants Handbook**, *Petroleum Refining Design and Applications Handbook, Volume 1* A. Kayode Coker, 2018-07-31 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

**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

**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 Oil Trading Manual David Long, 1995-01-01 The Oil Trading Manual OTM provides a unique and comprehensive reference source to the latest developments in the structure and conduct of the international oil markets including Physical characteristics and refining Oil pricing arrangements Physical oil markets Forward and futures contracts Options and swaps Operations and logistics Accounting and taxation Controlling financial risk Legal and regulatory control OTM provides a unique and comprehensive reference source to the structure and conduct of the international oil markets The manual covers all the major oil trading instruments and their applications the trading centres contracts uses and users of both the physical and the terminal oil markets and their administrative management tax and accounting implications It also includes vital information on changes to the international legal and regulatory structures The manual is divided into three complementary parts Characteristics An introduction to oil and oil trading and includes material on the nature of oil as a commodity refinery processes and the different ways in which oil is priced Instruments and markets Deals with the oil market itself taking each segment in turn explaining how the various trading instruments work and describing the markets that have evolved to trade them It starts with the physical oil markets moving on to forward and futures markets followed by options and swaps Administration Covers the essential back room activities without which oil trading could not continue It includes practical material on operations and logistics credit control accounting taxation contracts and regulation and controlling financial risk providing a unique guide to the subject Compiled from the contributions of a range of internationally respected professionals it is the indispensable practical companion for all those involved with trading in this complex commodity Revised and

updated 2003      *Modeling of Processes and Reactors for Upgrading of Heavy Petroleum* Jorge Ancheyta, 2013-01-29 The worldwide petroleum industry is facing a dilemma the production level of heavy petroleum is higher than that of light petroleum Heavy crude oils possess high amounts of impurities sulfur nitrogen metals and asphaltenes as well as a high yield of residue with consequent low production of valuable distillates gasoline and diesel These characteristics in turn are responsible for the low price of heavy petroleum Additionally existing refineries are designed to process light crude oil and heavy oil cannot be refined to 100 percent One solution to this problem is the installation of plants for heavy oil upgrading before sending this raw material to a refinery Modeling of Processes and Reactors for Upgrading of Heavy Petroleum gives an up to date treatment of modeling of reactors employed in the main processes for heavy petroleum upgrading The book includes fundamental aspects such as thermodynamics reaction kinetics chemistry and process variables Process schemes for each process are discussed in detail The author thoroughly describes the development of correlations reactor models and kinetic models with the aid of experimental data collected from different reaction scales The validation of modeling results is performed by comparison with experimental and commercial data taken from the literature or generated in various laboratory scale reactors Organized into three sections this book deals with general aspects of properties and upgrading of heavy oils describes the modeling of non catalytic processes as well as the modeling of catalytic processes Each chapter provides detailed experimental data explanations of how to determine model parameters and comparisons with reactor model predictions for different situations so that readers can adapt their own computer programs The book includes rigorous treatment of the different topics as well as the step by step description of model formulation and application It is not only an indispensable reference for professionals working in the development of reactor models for the petroleum industry but also a textbook for full courses in chemical reaction engineering The author would like to express his sincere appreciation to the Marcos Moshinsky Foundation for the financial support provided by means of a Ctedra de Investigaci n      **Pacific**

**Northwest Economic Base Study for Power Markets: Supporting studies. pt. 1. Population. pt. 2. Labor force. pt. 3. Employment. pt. 4. Personal income. pt. 5. Agriculture and food processing. pt. 6. Forest industries. pt. 7. Minerals. pt. 8. Fisheries. pt. 9. Recreation. pt. 10. Water. pt. 11. Fuels. pt. 12. Defense industries. pt. 13.**

**Chemicals** ,1964      *Economic Impact Analysis of Effluent Limitations and Standards for the Petroleum Refining Industry* ,1982      **Petroleum Economics and Engineering, Third Edition** 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 calculate rate of return discounted cash flow payout period and more Petroleum Economics and Engineering Third Edition assists petroleum engineers chemical engineers production workers management and executives

in sound economic decision making regarding the design manufacture and operation of oil and gas plants equipment and processes The fully revised third edition is updated to reflect key advancements in petroleum technology and expanded to include chapters on middle stream operations known as surface petroleum operations SPO and natural gas processing and fractionation By looking globally at the hydrocarbon industry the improved text offers the reader a more complete picture of the petroleum sector which includes the global processes of exploration production refining and transportation

Technological Foundations of Cyclical Economic Growth Nathan Edmonson, 2017-09-08 New technology is intimately associated with increased economic growth The tools people have and when they acquired them tells us much about cyclical patterns of growth Those interested in encouraging economic growth would do well to look to the conditions that spur the origins development and impact of technology as well as the circumstances that spur prolific periods of invention the mother of technology Despite general recognition of the connection between technology and growth economists rarely have gotten to the heart of the relationship Joseph Schumpeter and John Hicks were aware of the role of technology in cyclical variability but their thoughts were not elaborated upon after they passed from the scene Edmonson goes beyond formal theory reviewing the record of economic growth and the role of technology in this growth What does the technology future hold One clue is where past prototype inventions that have fomented massive technological innovations have come from Some parts of the private sector such as Bell Labs have been important The government particularly in its sponsorship of defense related research has delivered a number of inventions Universities are very much in the picture in certain fields such as nanotechnology The challenges we face at the onset of the twenty first century are covered in depth and with imagination by Edmonson The book will spur much rethinking about economic futures

**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

**The Cost of Clean Water and Its Economic Impact** United States. Federal Water Pollution Control Administration, United States. Environmental Protection Agency, 1968



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