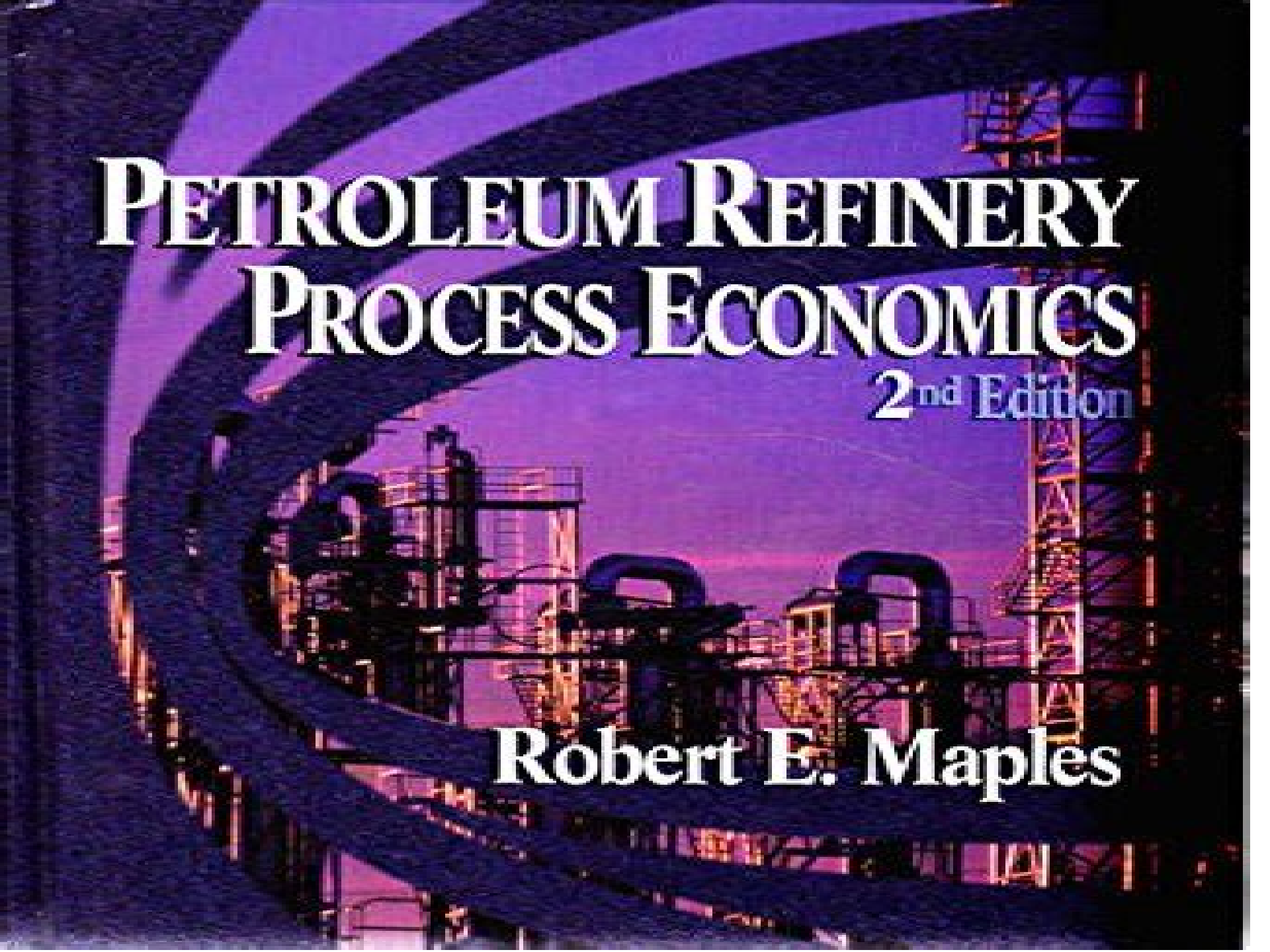


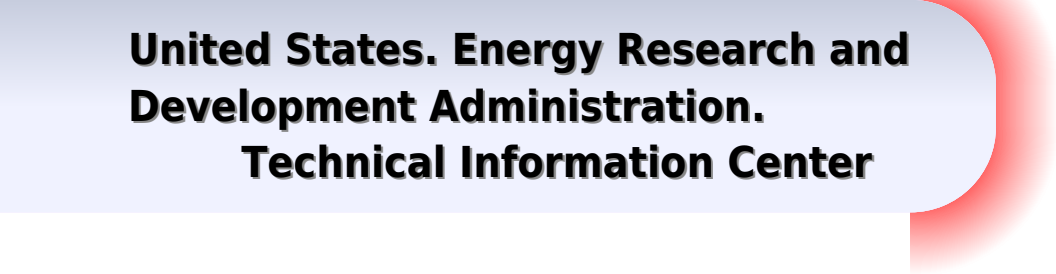
The background of the book cover is a photograph of a petroleum refinery at dusk or dawn. The sky is a deep purple, and the refinery's complex network of pipes, towers, and storage tanks is silhouetted against the light. A large, dark, curved pipe or structure dominates the foreground, curving from the bottom left towards the center. The title 'PETROLEUM REFINERY PROCESS ECONOMICS' is printed in a large, white, serif font across the upper half. Below the title, '2nd Edition' is written in a smaller, blue, serif font. At the bottom, the author's name 'Robert E. Maples' is printed in a white, serif font.

# PETROLEUM REFINERY PROCESS ECONOMICS

2<sup>nd</sup> Edition

Robert E. Maples

# Petroleum Refinery Process Economics Second Edition



**United States. Energy Research and  
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## **Petroleum Refinery Process Economics Second Edition:**

**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 **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

Hydrotreating and Hydrocracking Processes in Refining Technology James G. Speight, 2023-09-29 Written by an industry expert with over 50 years of experience this book details the various solvent processes that are used in crude oil refineries Providing an in depth exploration of the different types of processes as well as the types of feedstocks that can be used with them this book prepares readers for changes as the industry evolves Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Contains an extensive glossary of all related concepts in hydrotreating and hydrocracking processes Considers next generation processes and developments This book is an essential guide for engineers scientists and students in the field of petroleum processing and refining technology including professionals technicians management personnel and academics *product guide SUMMER 2008* , Air Pollution and Control DR. KESHAV KANT, ER. RAJNI KANT, This book provides a fully comprehensive rigorous and refreshing treatment of Air Pollution and Control covering present day technology and developments It covers various new topics like bioaerosols or aeroallergens and hazardous air pollutants including diesel exhaust and dioxins The book is intended to meet the

requirements of a Undergraduate and postgraduate students of particularly Environmental and Mechanical Engineering and also other branches of Engineering b Technologists designers operation and maintenance engineers of industries electrical power plants heat and power utilities c Aspirants for competitive examinations of IAS IES IFS PCS and aspirants for various state and private technical services etc and d General readers interested in the field for better understanding and knowledge The book is divided into 20 chapters and presents enormous information covering all aspects of Air Pollution in various sectors relevant to Indian conditions Each of the following chapters is followed by questions at the end based upon the text

**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 controlOTM 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

**Integrated Waste Biorefineries: Achieving Sustainable Development Goals, 2nd edition**

Mohammad Rehan,Muhammad Amjad,Ala'A Al-Muhtaseb,Muhammad Abdul Qyyum,Konstantinos Moustakas,Su Shiung Lam,Abdul-Sattar Nizami,Meisam Tabatabaei,Imtiaz Ali,Arshid Mahmood Ali,Muhammad Farooq,2024-01-11 The United Nations Sustainable Development Goals SDGs are designed to revolutionize societies to prepare for the future challenges However the practical implementation of such goals in many domains is are yet to be achieved despite of unique essence Sustainable energy production aligned with SDG 7 clean water and sanitation aligned with SDG 6 sustainable waste services aligned with SDG 11 and mitigating climate change impacts aligned with SDG 13 have been the prime focus of SDGs Moreover much attention is being paid to research and development activities on waste prevention reduction recycling and

reuse to achieve responsible consumption and production aligned with SDG 12 Waste biorefineries have emerged as a sustainable environmental management solution to achieve not only the aforementioned SDGs but also to accomplish no poverty aligned with SDG 1 and zero hunger aligned with SDG 2 and to maintain well being and good health aligned with SDG 3 and decent work and economic growth aligned with SDG 8 worldwide This is true because integrated waste biorefineries can efficiently and sustainably produce fuels heat energy power and multiple value added products and chemicals It can further facilitate the transition from linear to circular economies and mitigate the major challenges faced including environmental pollution climate change and adverse effects on public health This Research Topic will focus on different types of waste biorefineries current status practical implications optimization of waste to energy technologies detailed life assessment studies and future opportunities with a vision to achieve SDGs in the areas of sustainable energy generation waste management circular economies and climate change mitigation The editorial team of this special issue consisting of world renowned scientists including Highly Cited Researchers welcomes submissions of original research articles review articles short communications industrial and or country region case studies that covers the following enlisted topics Waste biorefineries e g organic waste biorefinery agricultural and forestry waste biorefinery etc Integration of different types of biorefineries Sustainable development goals Waste to energy technologies Energy and resource recovery from biomass and other waste Renewable and sustainable energy systems Biomass and waste supply chain Sustainable waste management systems Mitigation of environmental pollution and climate change Life cycle assessment Sustainable circular and bio based economies

*Oil and Gas Journal* ,1997      **Industrialization and Productivity** ,1958      **Petroleum Review** ,2002      **The Energy Journal** ,2001      **Hydrocarbon Processing** ,1980-10      Chemical & Metallurgical Engineering Eugene Franz Roeber,Howard Coon Parmelee,1922      Process / Industrial Instruments and Controls Handbook, Sixth Edition Gregory K. McMillan,P. Hunter Vegas,2019-04-12 Extensive practical plant based knowledge to achieve the best automation system

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Center,1976      **American Oil Directory...** ,1922      The Petroleum Review ... ,1980      **The Oil and Gas Journal** ,1927  
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