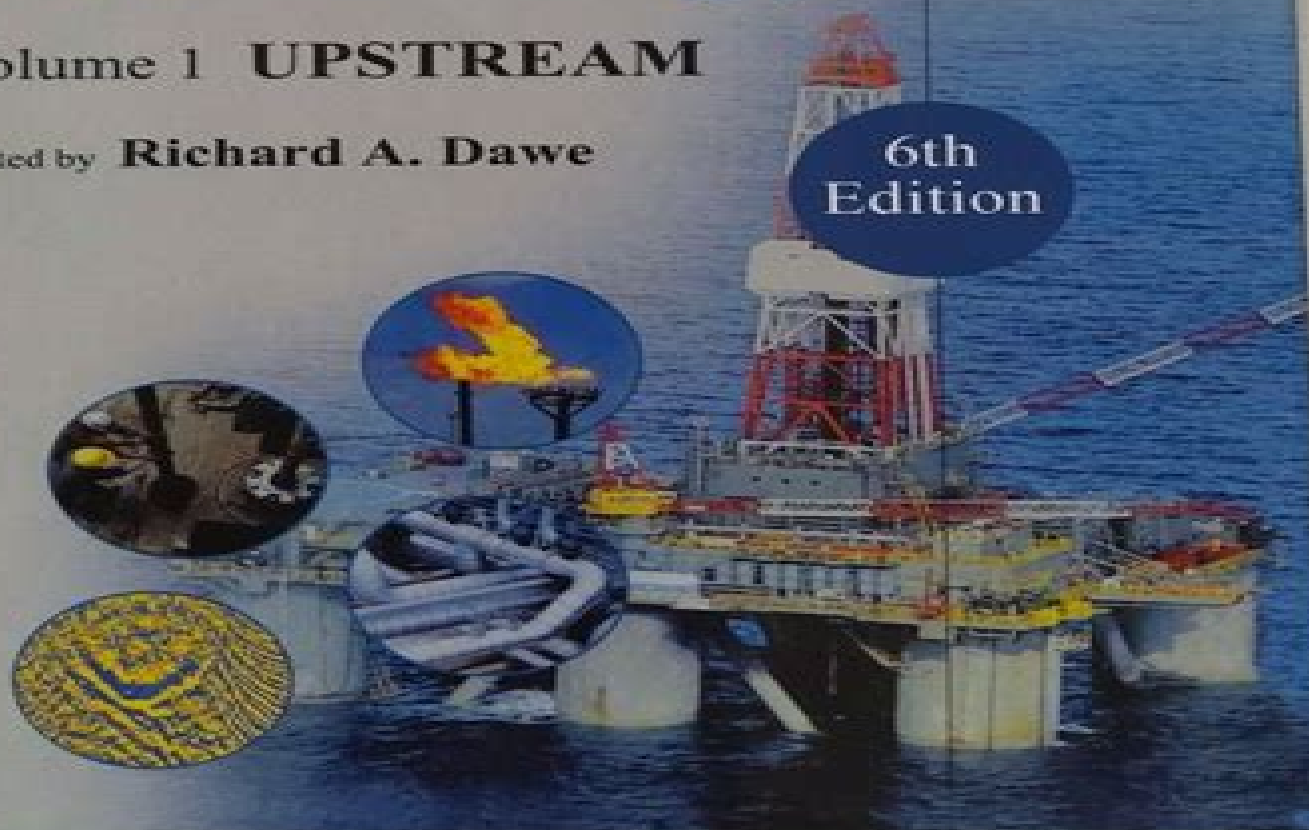


Modern Petroleum Technology

Volume 1 **UPSTREAM**

Edited by **Richard A. Dawe**

**6th
Edition**



Modern Petroleum Technology Upstream

James G. Speight



Modern Petroleum Technology Upstream:

Modern Petroleum Technology, Set Institute of Petroleum (IP), 2000 Reflecting the many changes in the technology of the oil and gas industry since its last publication in 1984 this new edition of Modern Petroleum Technology is the most authoritative and thoroughly up to date review of technical expertise employed across the whole of the international oil and gas industry Written by leading international experts from industry and academia all entries have been updated and many new entries have been added for this 6th edition The work is divided into two volumes Upstream and Downstream Upstream examines the different stages of the exploration and production processes involved in the location and extraction of raw materials including the latest applications employed in modern seismic technology and the production of heavy oils Downstream covers the process of refining the raw material and producing and supplying the end product from refineries to service stations Both volumes deal with all aspects of their area of petroleum technology from the innovations in technology to the environmental issues surrounding its practical application Modern Petroleum Technology considers the current challenges and opportunities presented by new technology enabling everyone in the industry from the busy chief executive to the petroleum engineer to stay in touch with developments outside their own area of expertise Modern Petroleum Technology's concise and comprehensive overview will also be of special value to analysts strategists lecturers and students oil and gas consultants and legal and financial service providers Modern Petroleum Technology Institute of Petroleum (Great Britain), 1962 **Modern Petroleum Technology** George Douglas Hobson, 1984 *The Chemistry and Technology of Petroleum* James G. Speight, 2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for t **Environmental Analysis and Technology for the Refining Industry** James G. Speight, 2005-09-02 A timely hands on guide to environmental issues and regulatory standards for the petroleum industry Environmental analysis and testing methods are an integral part of any current and future refining activities Today's petroleum refining industry must be prepared to meet a growing number of challenges both environmental and regulatory Environmental Analysis and Technology for the Refining Industry focuses on the analytical issues inherent in any environmental monitoring or cleanup program as they apply to today's petroleum industry not only during the refining process but also during recovery operations transport storage and utilization Designed to help today's industry professionals identify test methods for monitoring and cleanup of petroleum based pollutants the book provides examples of the application of environmental regulations to petroleum refining and petroleum products as well as current and proposed methods for the mitigation of environmental effects and waste management Part I introduces petroleum technology refining and products and reviews the nomenclature used by refiners environmental scientists and engineers Part II discusses

environmental technology and analysis and provides information on environmental regulation and the impact of refining. Coverage includes in-depth descriptions of analyses related to gaseous emissions, liquid effluents, and solid waste. A checklist of relevant environmental regulations. Numerous real-world examples of the application of environmental regulations to petroleum refining and petroleum products. An analysis of current and proposed methods of environmental protection and waste management.

Handbook of Petroleum Product Analysis James G. Speight, 2015-02-02. Introduces the reader to the production of the products in a refinery. Introduces the reader to the types of test methods applied to petroleum products, including the need for specifications. Provides detailed explanations for accurately analyzing and characterizing modern petroleum products. Rewritten to include new and evolving test methods. Updates on the evolving test methods and new test methods as well as the various environmental regulations are presented.

Modern Petroleum Technology, Set Institute of Petroleum (IP), 2000-09-13. Reflecting the many changes in the technology of the oil and gas industry since its last publication in 1984, this new edition of *Modern Petroleum Technology* is the most authoritative and thoroughly up-to-date review of technical expertise employed across the whole of the international oil and gas industry. Written by leading international experts from industry and academia, all entries have been updated and many new entries have been added for this 6th edition. The work is divided into two volumes: *Upstream* and *Downstream*. *Upstream* examines the different stages of the exploration and production processes involved in the location and extraction of raw materials, including the latest applications employed in modern seismic technology and the production of heavy oils. *Downstream* covers the process of refining the raw material and producing and supplying the end product from refineries to service stations. Both volumes deal with all aspects of their area of petroleum technology, from the innovations in technology to the environmental issues surrounding its practical application. *Modern Petroleum Technology* considers the current challenges and opportunities presented by new technology, enabling everyone in the industry, from the busy chief executive to the petroleum engineer, to stay in touch with developments outside their own area of expertise. *Modern Petroleum Technology's* concise and comprehensive overview will also be of special value to analysts, strategists, lecturers, and students, oil and gas consultants, and legal and financial service providers.

Modern Petroleum Technology, Downstream Institute of Petroleum (IP), 2002-10-25. The *Downstream* volume of this definitive reference provides the most authoritative and up-to-date review of the latest technology used within the downstream side of the international petroleum industry. It looks at refining the raw material and producing and supplying the end product, i.e., from refineries, road tankers, to service stations. All aspects of petroleum are covered, from innovative technology to the environmental issues surrounding it. Entries in all fields are written by leading experts, ensuring that it remains the essential information source of librarians, technicians, and managers.

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

Petrochemistry Martin Bajus, 2020-04-06 A comprehensive textbook on petrochemical conversion processes for petroleum and natural gas fractions as produced by refinery operations This innovative textbook provides essential links between the chemical sciences and chemical technology between petrochemistry and hydrocarbon technology The book brings alive key concepts forming the basis of chemical technology and presents a solid background for innovative process development In all chapters the processes described are accompanied by simplified flow schemes encouraging students to think in terms of conceptual process designs Petrochemistry Petrochemical Processing Hydrocarbon Technology and Green Engineering introduces students to a variety of topics related to the petrochemical industry hydrocarbon processing fossil fuel resources as well as fuels and chemicals conversion The first chapter covers the fundamentals and principals for designing several of the processes in the book including discussions on thermodynamics chemical kinetics reactor calculations and industrial catalysts The following chapters address recent advances in hydrocarbon technology energy technology and sources of hydrocarbons The book then goes on to discuss the petrochemical industry based on four basic pillars all derived from petroleum and natural gas Production of lower alkenes other sources of lower alkenes petrochemicals from C2 C3 alkenes Production of BTX aromatics chemicals from BTX aromatics C1 technology Diversification of petrochemicals The growing importance of sustainable technology process intensification and addressing greenhouse gas emissions is reflected throughout the book Written for advanced students working in the areas of petrochemistry hydrocarbon technology natural gas energy materials and technologies alternative fuels and recycling technologies the book is also a valuable reference for industrial practitioners in the oil and gas industry

Engineering Assets and Public Infrastructures in the Age of Digitalization Jayantha P. Liyanage, Joe Amadi-Echendu, Joseph Mathew, 2020-08-17 This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely relevant and practically important in the modern digital era towards safer cost effective efficient and secure engineered assets such as production and manufacturing plants process facilities civil structures equipment machinery and infrastructure It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors The professional coverage of the book includes Asset management in Industry 4.0 Standards and models Sustainable assets and processes Life cycle

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Gas Engineering James G. Speight, 2021-09-20 Volume 1 deals with the origins of process gases and describes recovery properties and composition It covers as well the shale gas the production from hydrocarbon rich deep shale formations being one of the most quickly expanding trends in onshore domestic gas exploration Vol 2 Composition and Processing of Gas Streams Vol 3 Uses of Gas and Effects

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Handbook of Natural Gas Analysis James G. Speight, 2018-07-02 A comprehensive resource to the origin properties and analysis of natural gas and its constituents Handbook of Natural Gas Analysis is a comprehensive guide that includes information on the origin and analysis of natural gas the standard test methods and procedures that help with the predictability of gas composition and behavior during gas cleaning operations and use The author a noted expert on the topic also explores the properties and behavior of the various components of natural gas and gas condensate All chapters are written as stand alone chapters and they cover a wealth of topics including history and uses origin and production composition and properties recovery storage and transportation properties and analysis of gas stream and gas condensate The text is designed to help with the identification of quality criteria appropriate analysis and testing that fall under the umbrella of ASTM International ASTM is an organization that is recognized globally across borders disciplines and industries and works to improve performance in manufacturing and materials and products This important

guide Contains detailed information on natural gas and its constituents Offers an analysis of methane gas hydrates ethane propane butane and gas condensate Includes information on the behavior of natural gas to aid in the planning for recovery storage transportation and use Covers the test methods that are applicable to natural gas and its constituents Written in accessible and easy to understand terms Written for scientists engineers analytical chemists who work with natural gas as well as other scientists and engineers in the industry Handbook of Natural Gas Analysis offers a guide to the analysis standard test methods and procedures that aid in the predictability of gas composition and behavior during gas cleaning operations and use

Converting Power into Chemicals and Fuels Martin Bajus, 2023-07-10 CONVERTING POWER INTO CHEMICALS AND FUELS Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low carbon alternatives Power into Chemicals and Fuels stresses the versatility of hydrogen as an enabler of the renewable energy system an energy vector that can be transported and stored and a fuel for the transportation sector heating of buildings and providing heat and feedstock to industry It can reduce both carbon and local emissions increase energy security and strengthen the economy as well as support the deployment of renewable power generation such as wind solar nuclear and hydro With a focus on power to X technologies this book discusses the production of basic petrochemicals in such a way as to minimize the carbon footprint and develop procedures that save energy or use energy from renewable sources Various different power to X system configurations are introduced with discussions on their performance environmental impact and cost Technologies for sustainable hydrogen production are covered focusing on water electrolysis using renewable energy as well as consideration of the remaining challenges for large scale production and integration with other technologies Power into Chemicals and Fuels readers will also find Discussion of recent advances in power into x technologies for the production of ethylene propylene formic acid and more Coverage of every stage in the power into x process from power generation to upgrading the final product Thermodynamic technoeconomic and life cycle assessment analyses of each major process Power into Chemicals and Fuels is a valuable resource for scientists and engineers working in the petrochemicals and hydrocarbons industries as well as for all industry professionals in these and related fields

Environmental Technology in the Oil Industry Stefan T. Orszulik, 2007-12-05 FIGURE 1 1 BP group annual total air emissions by pollutant 1999 2004 See Color Plates FIGURE 1 2 BP group annual total air emissions by business 1999 2004 See Color Plates evaporate In addition gas can be released from operations through controlled process vents for safety protection Further safety devices such as flares are used to burn excess hydrocarbons in the industry but can allow a small proportion of hydrocarbon into the atmosphere without being burnt Industry contains and controls these emissions wherever possible to minimize any loss of hydrocarbon Hydrocarbon vapours often described as volatile organic compounds or VOCs are potentially harmful air pollutants which can result in local health impacts as well as local or regional contributions to the formation of low level ozone which in turn may also impact human health Controlling hydrocarbon loss helps prevent impact

on air quality and is also economically beneficial 4 A Ahnell and H O Leary In 2004 BP emitted 245 kilo tonnes of non methane hydrocarbons to air a decrease of 24 kilo tonnes 9% compared with 2003 The largest proportion of these emissions came from the exploration and production businesses 44% followed by refining and marketing 35% Combining methane and non methane hydrocarbon totals provides a better idea of where most of the hydrocarbon emissions come from within the industry sectors In BP's case the exploration and production activities account for 67% of the total volume of such hydrocarbons emitted to air in 2004

Bioremediation of Petroleum and Petroleum Products James G. Speight, Karuna K. Arjoon, 2012-11-07 With petroleum related spills explosions and health issues in the headlines almost every day the issue of remediation of petroleum and petroleum products is taking on increasing importance for the survival of our environment our planet and our future This book is the first of its kind to explore this difficult issue from an engineering and scientific point of view and offer solutions and reasonable courses of action This book will guide the reader through the various methods that are used for the bioremediation of petroleum and petroleum products The text is easy to read and includes many up to date and topical references This book introduces the reader to the science and technology of biodegradation a key process in the bioremediation of petroleum and petroleum based contaminants at spill sites The contaminants of concern in the molecularly variable petroleum and petroleum products can be degraded under appropriate conditions But the success of the process depends on the ability to determine the necessary conditions and establish them in the contaminated environment Although the prime focus of the book is to determine the mechanism extent and efficiency of biodegradation it is necessary to know the composition of the original petroleum or petroleum product The laws of science dictate what can or cannot be done with petroleum and petroleum products to ensure that biodegradation hence bioremediation processes are effective The science of the composition of petroleum and petroleum products is at the core of understanding the chemistry of biodegradation and bioremediation processes Hence inclusion of petroleum analyses and properties along with petroleum product analyses and properties is a necessary part of this text *Bioremediation of Petroleum and Petroleum Products* Summarizes the pros and cons of remediation of petroleum and petroleum based products from an environmental perspective Gives examples of unethical behavior and how they should be corrected Offers arguments and elucidates engineering considerations on all sides of these difficult environmental and economic issues

Natural Gas James G. Speight, 2018-11-26 *Natural Gas A Basic Handbook Second Edition* provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector Written at an introductory level but still appropriate for engineers and other technical readers this book provides an overview of natural gas as a fuel source including its origins properties and composition Discussions include the production of natural gas from traditional and unconventional sources the downstream aspects of the natural gas industry including processing storage and transportation and environmental issues and emission controls strategies This book presents an ideal resource on the topic for engineers new to natural gas for advisors and consultants in

the natural gas industry and for technical readers interested in learning more about this clean burning fuel source and how it is shaping the energy industry Updated to include newer sources like shale gas Includes new discussions on natural gas hydrates and flow assurance Covers environmental issues Contain expanded coverage of liquefied natural gas LNG *The Development of Iran's Upstream Oil and Gas Industry* Mahmoud Fard Kardel, 2019-09-12 This book critically examines different forms of petroleum contracts the historical perspective of the oil and gas industry and the political economy of the petroleum development in Iran In doing this the author provides analysis of the concept of concession in oil and gas development This is discussed through the main forms of concession contracts namely the classic concession contract CCC and the new concession contract NCC The book ties together much of the existing work on the history of oil and gas regulation in Iran and builds on that foundation to propose a coherent and balanced approach within the framework of the NCC To consider the role of the NCC in developing national upstream oil and gas industry comparative examples are drawn from countries currently using or having previously used NCC oil and gas contracts The selected developed and developing countries are Brazil Thailand the United Kingdom Australia and Norway The analysis considers the extent to which the NCC has served to advance the objectives and national interests of the national governments in this industry The book involves a comparative exploration of the utilisation of NCCs in other jurisdictions and synthesises a framework through which Iran may develop its underutilised oil and gas resources Of interest to academics students and practitioners throughout the world this book focuses on the relevant aspects of Iran's Constitution and natural resource laws and makes recommendations for law reform to Iran's legal frameworks **Petroleum Review** ,2006

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Table of Contents Modern Petroleum Technology Upstream

1. Understanding the eBook Modern Petroleum Technology Upstream
 - The Rise of Digital Reading Modern Petroleum Technology Upstream
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Petroleum Technology Upstream
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Petroleum Technology Upstream
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Petroleum Technology Upstream
 - Personalized Recommendations
 - Modern Petroleum Technology Upstream User Reviews and Ratings
 - Modern Petroleum Technology Upstream and Bestseller Lists
5. Accessing Modern Petroleum Technology Upstream Free and Paid eBooks
 - Modern Petroleum Technology Upstream Public Domain eBooks
 - Modern Petroleum Technology Upstream eBook Subscription Services
 - Modern Petroleum Technology Upstream Budget-Friendly Options

6. Navigating Modern Petroleum Technology Upstream eBook Formats
 - ePub, PDF, MOBI, and More
 - Modern Petroleum Technology Upstream Compatibility with Devices
 - Modern Petroleum Technology Upstream Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modern Petroleum Technology Upstream
 - Highlighting and Note-Taking Modern Petroleum Technology Upstream
 - Interactive Elements Modern Petroleum Technology Upstream
8. Staying Engaged with Modern Petroleum Technology Upstream
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Petroleum Technology Upstream
9. Balancing eBooks and Physical Books Modern Petroleum Technology Upstream
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Petroleum Technology Upstream
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Petroleum Technology Upstream
 - Setting Reading Goals Modern Petroleum Technology Upstream
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Petroleum Technology Upstream
 - Fact-Checking eBook Content of Modern Petroleum Technology Upstream
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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