

The Petroleum Industry A Nontechnical Guide

This book has been written for laymen, for all those who would like to understand the business of oil and gas without having to read through the ballast of technical background. This book is easy to read and nearly free of technical jargon and mathematical formulas. To help with understanding, a glossary has been added as an appendix. The book is meant as an introduction to the large field of geology and upstream petroleum technology. It addresses investment people, students, accountants, non-technical managers in an oil company, journalists, and all those who want to obtain a quick immersion into the oil and gas industry. If you are in the oil and gas business and need to explain to someone outside the field - this is intended for you. If you are a non-technical person (e.g., accountant, lawyer) in an oil company or are considering studying geology or petroleum engineering, this is the fastest way to read up on the subject matter. For the seasoned professional who is familiar with the subject matter, this book may come in useful to explain aspects of the business to outsiders. A special effort has been made to point out the stochastic nature of exploration, the value of information and knowledge and the economic and historic back-drop on which all commercial oil and gas operations take place. This book does not claim to be complete and

correct to the last detail. Indeed, some aspects have been drastically oversimplified to make them easier to understand. For further study and for those who want to know more, there is a large body of books, teaching videos and webinars on the Internet in additions to commercial libraries. In fact, every aspect of the oil business is so rich in detail and profound in science that it requires study and specialists' knowledge. The subject of every chapter could be a full career or profession.

This text describes GIS in nontechnical language so that petroleum professionals working in any sector of the industry can begin using the techniques available for spatial analysis and communication. Includes color graphics and maps.

This revised edition has been updated to reflect changes in the petroleum industry since the publication of the first edition in 1984. It is a useful introduction to the subject of oil and gas production for all, from beginning engineering and petroleum geology students to accountants and other nontechnical professionals. Adopted at more than 23 universities as a basic petroleum text, this text uses layman's language to provide an overview of every aspect of the petroleum industry.

Can "green petroleum" reverse global warming and bring down highgasoline prices? Written in non-technical language for the layperson, this book investigates

and details how the oil and gas industry can "go green" with new processes and technologies, thus bringing the world's most important industry closer to environmental and economic sustainability.

The book provides a systematic examination of the legal, fiscal and institutional frameworks for the commercial development of petroleum and solid mineral resources in Africa. First, it considers the values, assumptions, and guiding principles underpinning legislation and governance in Africa's extractive sector. It then provides detailed and comparative evaluations of regulatory frameworks, pricing, local content, procurement, sales, and contractual arrangements across African extractive industries. Further, the book assesses how questions of business and human rights risks, accountability, corporate social responsibility, waste and pollution control, environmental justice, and participatory development have been addressed to date, and how they could be addressed better in the future. Enhancing readers' understanding of the geography, sources and scope of extractive resources in Africa, the book explains how corporations can effectively identify, mitigate and prevent legal and business risks when investing in African extractive industries. Lastly, it discusses the innovative legal strategies and tools needed to achieve a sustainable and rights-based extractive industry. Written in a user-friendly style, the book offers a valuable resource for

corporations, investors, environmental and human rights administrators, advocates, policymakers, judges, international negotiators, government officials and consultants who advise on, or are interested in, petroleum and solid mineral investments in Africa. It also offers students and researchers an authoritative guidebook to the current state of extractive industry laws and institutions in Africa. Numerous examples of how international legal norms could be used to help revitalize the underlying legal and fiscal regimes in African extractive industries – to make them more robust, accountable, sustainable and rights-based – round out the coverage

With concerns about energy security and new advances in renewable energy resources, the energy industry is sure to be one of the most exciting and important career fields in the 21st century.

This text shows managers and technical workers how to gauge the market from published data and how to understand all the things that affect market dynamics. Readers learn about key physical features of the market.

This text explains the how's and why's of the pipeline industry. It was written for those not directly involved in pipeline operations - legal, supply, accounting, finance, and human resource specialists, and people who service and sell equipment to pipeline companies. But even engineers and expert pipeliners can gain insights from the book's

depth and broad perspective.

Based on the best-selling book by Bill Leffler---industry veteran, author, and lecturer---the Petroleum Refining in Nontechnical Language Video Series walks you through the refining process one procedure at a time. In the 10-part series, Dr. Leffler covers the information found in his book Petroleum Refining in Nontechnical Language, 4th Edition, breaking down into easily digestible concepts each basic principle of refining.

Career profiles include electrical and electronics installer and repairer, geoscience technician, hazardous materials removal worker, hot-cell technician, natural gas processing plant operator, nuclear engineer, oil well driller, petroleum engineer, power distributor and dispatcher, solar engineer, and more.

'Oil: From Prospect to Pipeline' was the original non-technical book written about the oil and gas industry. A 'common-sense, brass tacks guide', this classic was originally published by Gulf Publishing Company in 1958 and has gone through four editions. With the oil and gas industry experiencing rapid new growth, this is an exciting time for newcomers to the field to get involved and this reprint of a Gulf classic is the perfect introduction. An interesting read for veterans of the industry and a valuable textbook for students, this guide provides a comprehensive overview of all production, plus: An Oil Dictionary; Abbreviation in oil reports; Typical legal forms; Overview of geological terminology and technical terms; And much more!

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Guides the reader through the various energy sources available to humans and how we implement them. The book is intended for readers who do not have a science and technology background; it serves as an introduction to work, energy and efficiency. Examples range from human's earliest work endeavors such as building pyramids to the inspiration and development of Henry Ford's first automobile up through alternative energy sources. Also, among the many topics covered are: energy, work, and power; combustion for home comfort; the steam engine; how electricity is generated; boilers and heat transfer; cars and their impact; atoms and atomic energy; Three Mile Island and Chernobyl; Acid rain; smog; nuclear fusion; the greenhouse effect; and much, much more.

Those in the petroleum industry as well as secondary users in banking, geology, and related fields for the logs created of oil wells will find this a useful guide. The second edition has been revised to reflect advances in logging techniques. The text contains many diagrams, photos, and sample logs for illustration as it describes topics that include the use and reading of logs, formation parameters, mud logging, resistivity management, porosity measurements, computer-generated log interpretations, and techniques for water saturated sites. Annotation c. Book News, Inc., Portland, OR. Using analogies, graphs, formulas and illustrations, the author overviews key topics in the refining industry for professionals in finance and marketing. The third edition reflects changes in petroleum processing and the impact of environmental regulation.

Annotation c. Book News, Inc., Portland, OR

Catalysis is literally the heart of many petroleum refining processes and therefore of ongoing interest to those in and around the refining industry. In easy-to-grasp language and format, *Petroleum Catalysis in Nontechnical Language* examines fluid catalytic cracking (FCC), reforming, hydrotreating, hydrocracking, isomerization, and polymerization, as well as catalysts of the future such as enzymes.

This second edition of *Historical Dictionary of the Petroleum Industry* contains a chronology, an introduction, appendixes, and an extensive bibliography. The dictionary section has over 500 cross-referenced entries on companies, people, events, technologies, countries, provinces, cities, and regions.

Provides details on exploration and drilling, including problems, techniques and evaluating/completing a well and, finally, production. As well as examining exploration, drilling and production methods, the book also covers basic language used in the petroleum industry.

The world is currently consuming about 85 million barrels of oil a day, and about two-thirds as much natural gas equivalent, both derived from non-renewable natural sources. In the foreseeable future, our energy needs will come from any available alternate source. Methanol is one such viable alternative, and also offers a convenient solution for efficient energy storage on a large scale. In this

updated and enlarged edition, renowned chemists discuss in a clear and readily accessible manner the pros and cons of humankind's current main energy sources, while providing new ways to overcome obstacles. Following an introduction, the authors look at the interrelationship of fuels and energy, and at the extent of our non-renewable fossil fuels. They also discuss the hydrogen economy and its significant shortcomings. The main focus is on the conversion of CO₂ from industrial as well as natural sources into liquid methanol and related DME, a diesel fuel substitute that can replace LNG and LPG. The book is rounded off with an optimistic look at future possibilities. A forward-looking and inspiring work that vividly illustrates potential solutions to our energy and environmental problems.

Joseph Hilyard's timely new book provides a broad perspective on the oil and gas industry, with primary attention to the United States. It takes the reader on a tour of the operations used to find and evaluate resources, and then to produce, store and deliver oil and gas. The book's main focus is primarily on the equipment and processes used in exploring new resources; evaluating promising formations; drilling wells; managing oil and gas production; converting oil and gas into products; and transporting oil and gas. Separate chapters address the evolution and current structure of the petroleum industry; oil and gas trading; and

challenges likely to face the oil and gas industry in coming years. Three appendices define key industry terminology; suggest further reading on selected topics; and identify organizations that can provide more information.

This updated second edition of *Oil & Gas Production in Nontechnical Language* is an excellent introduction for anyone from petroleum engineers and geologists new to their careers to financial, marketing, legal, and other professionals and their staffs interested in the industry. E&P service company personnel will find it particularly beneficial in understanding the roles played by their clients. Not only does it cover production fundamentals, but it backs up to give the necessary upstream background--geology, origins of oil and gas, and ownership and land rights--as well as surface operations and even production company strategy development.

Geomicrobiology is a combination of geology and microbiology, and includes the study of interaction of microorganisms with their environment, such as in sedimentary rocks. This is a new and rapidly-developing field that has led in the past decade to a radically-revised view of the diversity and activity of microbial life on Earth. Geomicrobiology e

This Second edition of the 'Energy Antitrust Handbook' presents a guide to an industry of increasing importance to the U.S. economy. It is written to assist

energy, regulatory, and antitrust lawyers in understanding the multilayered complexity of this field by providing a basic background on antitrust issues in the energy industry.

In this popular text that has trained thousands in the petroleum industry for years, Dr. Norman Hyne takes readers through upstream operations--from how oil and gas are formed; how to find commercial quantities; how to drill, evaluate, and complete a well--all the way through production and improved oil recovery. He uses lots of pictures, graphs, and illustrations to aid readers in understanding topics and to provide necessary visuals. Read it cover-to-cover as a complete primer, read it a section at a time as it comes up in your profession, and keep it handy as a quick reference. New to this edition: • A chapter on unconventional oil and gas (including gas shales) • Modern tools used in well logging • Modern drilling rig methods and equipment • Expanded glossary includes 1,500 new terms • More figures and plates • Up-to-date statistics

THIS PUBLICATION IS INTENDED TO FAMILIARIZE PHYSICIANS AND OTHER HEALTH PROFESSIONALS WITH THE PETROLEUM AND PETROCHEMICAL INDUSTRY BY PROVIDING BRIEF, NONTECHNICAL DESCRIPTIONS OF THIS INDUSTRY, DEFINING JOB TITLES, AND INDICATING GENERALLY THE BROAD SCOPE AND MULTITUDE OF

CHEMICALS UTILIZED AND HANDLED. IT IS ISSUED AS A SOURCE OF OF BASIC INFORMATION WHICH MAY ASSIST THE HEALTH SPECIALIST IN CONSIDERING AND RECOGNIZING THE POSSIBLE ROLE OF VARIOUS ENVIRONMENTAL STRESSES AND HAZARDS IN THE CAUSATION OF WORKER COMPLAINTS AND HEALTH PROBLEMS. THREE INTRODUCTORY CHAPTERS COVER HISTORICAL DEVELOPMENT OF OCCUPATIONAL HEALTH, DESCRIPTION OF THE PETROLEUM INDUSTRY, AND EMPLOYEE HEALTH EVALUATION AND MEDICAL SURVEILLANCE. NINETY-ONE DATA SHEETS OF SELECTED CHEMICALS FOLLOW AND INCLUDE INFORMATION ON PHYSICAL PROPERTIES, SYNONYMS, DEGREE OF HEALTH HAZARD, EXPOSURE LIMITS, ACUTE AND CHRONIC TOXICITY, MEDICAL TREATMENT, BIOLOGICAL MONITORING, AND ADDITIONAL COMMENTS. AUTHORS FORWARD SUPPLEMENTED.

The world as we have known it for the past century would have been very different without petroleum. Petroleum, particularly in the form of crude oil and its refined products, has been central to all aspects of modern industrial society and has been a major strategic geopolitical objective for nations. The 20th century was the age of oil, and at least part of the 21st century will be as well. Petroleum is used as an energy source and as a raw material for the production of an

immense variety of chemicals and synthetic materials. Almost all the world's food relies on petroleum for fertilizer, pesticides, cultivation, or transport. Petroleum has been particularly dominant as a source of transportation fuels, an application for which cost-effective substitutes will be especially difficult to find. The A to Z of the Petroleum Industry presents a concise but complete one-volume reference on the history of the petroleum industry from pre-modern times to the present day. This is done through a chronology, an introductory essay, and over 400 cross-referenced dictionary entries on companies, people, places, events, technologies, and phenomena related to the history of the world's petroleum industry. Anyone interested in the history, status, and outlook for the petroleum industry will find this book a uniquely valuable source.

A new edition of Petrochemicals for the nontechnical person (date unspecified). Useful as a text (includes exercises) and a reference (but no bibliography) for business and other nontechnical personnel in the petrochemical industry. Annotation copyright Book News, Inc. Portland, Or.

The new second edition of this authoritative book has retained all the virtues of the best-selling original, explaining the unique challenges of oil and gas exploration and production in the world's deepwater provinces. New chapters on geology and geophysics, rigs, and service vehicles are included, and the

engineering and scientific schemes used in deepwater are covered in greater detail. Case studies in several chapters give practical examples, while the final chapter presents the latest technology employed in a "third wave" of industry evolution.

A compendium of current knowledge about conventional and alternative sources of energy. It clarifies complex technical issues, enlivens history, and illuminates the policy dilemmas we face today. This revised edition includes new material on biofuels, an expanded section on sustainability and sustainable energy, and updated figures and tables throughout. There are also online instructor materials for those professors who adopt the book for classroom use.

Excerpt from The Story of Oil Recent years have been marked by prolific crops of "studies in oil," but dealing mainly with some special phase of the oil business, frequently with disputed points of an ethical or a legal nature. Few, indeed, are the volumes giving in convenient form an account from which the reader may survey the entire industry and judge its importance for himself. It is hoped, therefore, that this "story of oil," told in nontechnical terms, may serve a double purpose: first, to portray, without prejudice or passion, the enormous developments in the petroleum industry during the last fifty years; and second, to point out the important part which petroleum and its products play in everyday

life. Few industries, even in this age of huge enterprises, can rival the petroleum industry in its rapid strides of progress; none can surpass it in the magnitude and range of its operations; no other has been so completely American in its development. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Despite its size and importance, a surprising lack of basic knowledge exists about the oil and gas industry. With their timely new book, authors Andrew Inkpen and Michael H. Moffett have written a nontechnical book to help readers with technical backgrounds better understand the business of oil and gas. They describe and analyze the global oil and gas industry, focusing on its strategic, financial, and business aspects and addressing a wide range of topics organized around the oil and gas industry value chain, starting with exploration and ending

with products sold to consumers. The Global Oil & Gas Industry is a single source for anyone interested in how the business of the world's largest industry actually works: business executives, students, government officials and regulators, professionals working in the industry, and the general public. The large scale, practical uses of natural gas were initially introduced by innovators Joseph Pew and George Westinghouse for the steel and glass industries in Pittsburgh, and local gas companies evolved from individual wells to an interstate supply network acquired by Rockefeller's Standard Oil interests. Natural gas is now a prevalent part of American markets and with the production from the Marcellus shale is filling the critical void left by a lack of new coal, oil, and nuclear power facilities. This vital American enterprise began in the Appalachian states as an accidental and underestimated byproduct of the oil rush of 1859. This book explores the evolution and significance of the natural gas industry to the present day.

Everything from upstream to downstream is covered in this nontechnical overview of the petroleum industry. Organized in a natural chronology, the text begins with the geology and origins of oil and gas formation and moves through the techniques used to find, drill, and produce oil. The author then moves the reader through clear explanations of downstream issues including storage, transportation, and marketing as well as

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refining and petrochemicals. Special attention is given to the differences between onshore and offshore processes. Features Newcomers will quickly learn petroleum industry language and concepts Provides cross-training in the other disciplines Easy-to-grasp concepts of technology and processes Points out the distinctions between onshore and offshore operations Includes a comprehensive glossary of industry terms and buzzwords

Introduces the most important aspects of the oil industry and offers cogent and up-to-date information about the countries, companies, and people who shape the contemporary history of oil.

Chris Termeer is said to be one of the few people that can clearly explain the vast complexities of the oil and natural gas industry in non-technical language for an average person. His book, *Fundamentals of Investing in Oil and Gas*, uses 250 + detailed pictures, graphs, and necessary visual illustrations, combined with thorough, comprehensive descriptions and details to aid the reader.

Engineers, executives, managers, and laypersons alike are sure to find this classic text to be a valuable, entertaining, and informative guide. Written in easy-to-understand nontechnical language, it presents a practical study of the operations involved in searching for, drilling for, and producing oil.

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