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Oil and Gas Pipelines in Nontechnical Language, 2nd Edition Pennwell Books *A totally understandable view of pipeline inception, planning, construction, start-up, and operation.* **Oil & Gas Pipelines in Nontechnical Language** Pennwell Corporation *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.* **Local Distribution Pipelines in Nontechnical Language** Pennwell Books *More than two million miles of local distribution pipelines deliver natural gas to homes, businesses, schools, and hospitals throughout the United States, and many more serve the rest of the world. These small-diameter, low-pressure pipelines serve as a critical link between high-pressure transportation pipelines and end users. Local Distribution Pipelines in Nontechnical Language explains natural gas distribution systems, a vital component in the overall natural gas transportation system, from their humble beginnings delivering "town gas" to handling today's complex urban infrastructure. Benefits for Readers: Knowing what goes on "behind" the City Gate Understanding the many components required for local distribution*

pipelines to function properly Learning how LDCs are managed and operated to assure continual supply Comprehending the specialized design, engineering, construction, and maintenance of these system **Oil & Gas Production in Nontechnical Language** Pennwell Books 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.

Natural Gas in Nontechnical Language Pennwell Corporation An overview of the natural gas process from wellhead to burnertip, from exploration to futures trading, and the latest issues of co-generation and other product use. **Petroleum Refining for the Non-technical Person** Pennwell Corporation Sets forth the many technical procedures involved in refining. Included are a new chapter on simple and complex refineries, and a revised chapter on gasoline blending, including current information on alcohol blending components. **Petrochemicals in Nontechnical Language** Pennwell Corporation This authoritative text has been re-written and expanded to include additional chapters on methyl tertiary butyl ether and higher alcohols. Read it cover to cover, chapter by chapter as the subject comes up in your business, use it as an encyclopedia, or as a primer on petrochemical economics. Packed with diagrams and tables, it is the only source you will need to get a clear understanding of this complex topic. Each chapter includes exercises and 'in a nutshell' chapter reviews. Contents: What you need to know about organic chemistry Benzene Toluene and the xylenes Cyclohexane Olefins plants, ethylene, and propylene The hydrocarbon family Cumene and phenol Ethylbenzene and styrene Ethylene dichloride and vinyl chloride Propylene oxide and propylene glycol Methanol and synthesis gas Other alcohols Formaldehyde and acetaldehyde Ketones Acids Acrylonitrile, acrylic acid, and acrylates Maleic anhydride Alpha olefins Nature of polymers Thermoplastics Resins and fibers **Oil and Gas Pipeline Fundamentals** Pennwell Corporation Industry expert John Kennedy details the oil and gas pipeline operation industry in this complete text. Contents: Pipeline industry overview Types of pipelines Pipe manufacture and coating Fundamentals of pipeline design Pumps and compressors Prime movers Construction practices and equipment Welding techniques and equipment Operation and control Metering and storage Maintenance and repair Inspection and rehabilitation Pipeline regulation Safety and environmental protection Tomorrow's technology. (Amazon) **Pipeline Planning and Construction Field Manual** Gulf Professional Publishing Pipeline Planning and Construction Field Manual aims to guide engineers and technicians in the processes of planning, designing, and construction of a pipeline system, as well as to provide the necessary tools for cost estimations, specifications, and field maintenance. The text includes understandable pipeline schematics, tables, and DIY checklists. This source is a collaborative work of a team of experts with over 180 years of combined experience throughout the United States and other countries in pipeline planning and construction. Comprised of 21 chapters, the book walks readers through

the steps of pipeline construction and management. The comprehensive guide that this source provides enables engineers and technicians to manage routine auditing of technical work output relative to technical input and established expectations and standards, and to assess and estimate the work, including design integrity and product requirements, from its research to completion. Design, piping, civil, mechanical, petroleum, chemical, project production and project reservoir engineers, including novices and students, will find this book invaluable for their engineering practices. Back-of-the envelope calculations Checklists for maintenance operations Checklists for environmental compliance Simulations, modeling tools and equipment design Guide for pump and pumping station placement **Fundamentals of Investing in Oil and Gas** [Chris Termeer](#) The intent of this book is to educate the reader about the vast complexities of the oil and gas industry and to motivate involvement in domestic oil and gas development, production and refinement. Explains the industry in non-technical language for an average person. **Petroleum Refining in Nontechnical Language** [Pennwell Books](#) For 45 years, William Leffler's Petroleum Refining in Nontechnical Language has been the go-to best seller for anyone needing to know the fundamentals of refining. Each chapter was carefully written in nontechnical language to give the reader a basic understanding of the refining industry. **Project Management in the Oil and Gas Industry** [John Wiley & Sons](#) Oil and gas projects have special characteristics that need a different technique in project management. The development of any country depends on the development of the energy reserve through investing in oil and gas projects through onshore and offshore exploration, drilling, and increasing facility capacities. Therefore, these projects need a sort of management match with their characteristics, and project management is the main tool to achieving a successful project. Written by a veteran project manager who has specialized in oil and gas projects for years, this book focuses on using practical tools and methods that are widely and successfully used in project management for oil and gas projects. Most engineers study all subjects, but focus on project management in housing projects, administration projects, and commercial buildings or other similar projects. However, oil and gas projects have their own requirements and characteristics in management from the owners, engineering offices, and contractors' side. Not only useful to graduating engineers, new hires, and students, this volume is also an invaluable addition to any veteran project manager's library as a reference or a helpful go-to guide. Also meant to be a refresher for practicing engineers, it covers all of the project management subjects from an industrial point of view specifically for petroleum projects, making it the perfect desktop manual. Not just for project managers and students, this book is helpful to any engineering discipline or staff in sharing or applying the work of a petroleum project and is a must-have for anyone working in this industry. **Natural Gas Hydrates in Flow Assurance** [Gulf Professional Publishing](#) With millions of kilometres of onshore and offshore oil and gas pipelines in service around the world, pipelines are the life's blood of the world. Notorious for disrupting natural gas production or transmission, the formation of natural gas hydrates can cost a company hundreds of millions and lead to catastrophic equipment breakdowns and safety and health hazards. Written by an international group of experts, Natural Gas Hydrates in Flow Assurance provide an expert overview of the practice and theory in

natural gas hydrates, with applications primarily in flow assurance. Compact and easy to use, the book provides readers with a wealth of materials which include the key lessons learned in the industry over the last 20 years. Packed with field case studies, the book is designed to provide hands-on training and practice in calculating hydrate phase equilibria and plug dissociation. In addition readers receive executable programs to calculate hydrate thermodynamics. Case studies of hydrates in flow assurance

The key concepts underlying the practical applications An overview of the state of the art flow assurance industrial developments

Project Finance for the International Petroleum Industry Academic Press This overview of project finance for the oil and gas industry covers financial markets, sources and providers of finance, financial structures, and capital raising processes. About US\$300 billion of project finance debt is raised annually across several capital intensive sectors—including oil and gas, energy, infrastructure, and mining—and the oil and gas industry represents around 30% of the global project finance market. With over 25 year's project finance experience in international banking and industry, author Robert Clews explores project finance techniques and their effectiveness in the petroleum industry. He highlights the petroleum industry players, risks, economics, and commercial/legal arrangements. With petroleum industry projects representing amongst the largest industrial activities in the world, this book ties together concepts and tools through real examples and aims to ensure that project finance will continue to play a central role in bringing together investors and lenders to finance these ventures. Combines the theory and practice of raising long-term funding for capital intensive projects with insights about the appeal of project finance to the international oil and gas industry Includes case studies and examples covering projects in the Arctic, East Africa, Latin America, North America, and Australia Emphasizes the full downstream value chain of the industry instead of limiting itself to upstream and pipeline project financing Highlights petroleum industry players, risks, economics, and commercial and legal arrangements

Petrochemicals Chart Pennwell Corporation "This laminated chart provides a quick glance reference of petrochemicals starting with Raw Materials (coal, natural gas, and oil) in the center of the chart then branching out into the Building Blocks, Derivatives, and End Uses. Each petrochemical is listed at the top of the chart in alphabetical order with map-like guides to help you easily trace a certain petrochemical."--publisher description.

Dry Gas Seals Handbook Pennwell Corporation "The information found in Dry Gas Seals Handbook will help you make informed decisions regarding the application, operation, and maintenance of dry gas seals. This book presents a complete guide to the technology, from the principle of gas seal operation to "lessons learned" from actual field experience."--BOOK JACKET.

Oil, Gas, and Mining A Sourcebook for Understanding the Extractive Industries World Bank Publications Oil, Gas, and Mining: A Sourcebook for Understanding the Extractive Industries provides developing countries with a technical understanding and practical options around oil, gas, and mining sector development issues. A central premise of the Sourcebook is that good technical knowledge can better inform political, economic, and social choices with respect to sector development and the related risks and opportunities. The guidance provided by the Sourcebook assumes a broad set of overarching principles, all centered on good governance and directed at achieving positive and broadly based sustainable

development outcomes. This Sourcebook is rich in presenting options to challenges, on the understanding that contexts and needs vary, and that there is much to be gained from appreciating the lessons learned from a broad set of experiences. **Petrochemicals for the Nontechnical Person** Pennwell Corporation **Advanced Natural Gas Engineering** Elsevier Natural gas is playing an increasing role in meeting world energy demands because of its abundance, versatility, and its clean burning nature. As a result, lots of new gas exploration, field development and production activities are under way, especially in places where natural gas until recently was labeled as "stranded". Because a significant portion of natural gas reserves worldwide are located across bodies of water, gas transportation in the form of LNG or CNG becomes an issue as well. Finally natural gas is viewed in comparison to the recently touted alternatives. Therefore, there is a need to have a book covering all the unique aspects and challenges related to natural gas from the upstream to midstream and downstream. All these new issues have not been addressed in depth in any existing book. To bridge the gap, Xiuli Wang and Michael Economides have written a new book called *Advanced Natural Gas Engineering*. This book will serve as a reference for all engineers and professionals in the energy business. It can also be a textbook for students in petroleum and chemical engineering curricula and in training departments for a large group of companies. **International Oil Company Financial Management in Nontechnical Language** Pennwell Corporation This addition to Johnston's bestselling petroleum financial books addresses the decision-making element of petroleum company management. It is a practical guide to all facets of modern financial management and strategic planning specific to today's oil and gas companies. The authors guide readers through the maze of financial management in a concise, practical, and organized fashion, delivering the basic principles that are critical for all elements of corporate leadership. **Pipeline Rules of Thumb Handbook A Manual of Quick, Accurate Solutions to Everyday Pipeline Engineering Problems** Elsevier Now in its sixth edition, *Pipeline Rules of Thumb Handbook* has been and continues to be the standard resource for any professional in the pipeline industry. A practical and convenient reference, it provides quick solutions to the everyday pipeline problems that the pipeline engineer, contractor, or designer faces. *Pipeline Rules of Thumb Handbook* assembles hundreds of shortcuts for pipeline construction, design, and engineering. Workable "how-to" methods, handy formulas, correlations, and curves all come together in this one convenient volume. Save valuable time and effort using the thousands of illustrations, photographs, tables, calculations, and formulas available in an easy to use format Updated and revised with new material on project scoping, plastic pipe data, HDPE pipe data, fiberglass pipe, NEC tables, trenching, and much more A book you will use day to day guiding every step of pipeline design and maintenance **Oil and Gas Pipelines Integrity and Safety Handbook** John Wiley & Sons A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date

technology to older infrastructure Includes case histories with examples of solutions to complex problems related to pipeline integrity Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety

Drilling Technology in Nontechnical Language China's Gas Development Strategies Springer This book is open access under a CC BY 4.0 license. This book examines how China can increase the share of natural gas in its energy system. China's energy strategy has global ramifications and impact, and central to this strategy is the country's transition from coal to gas. The book presents the culmination of a two-year collaboration between the Development Research Center of the State Council (DRC) and Shell. With the Chinese government's strategic aim to increase the share of gas in the energy mix from 5.8% in 2014 to 10% and 15% in 2020 and 2030 respectively, the book outlines how China can achieve its gas targets. Providing both quantifiable metrics and policy measures for the transition, it is a much needed addition to the literature on Chinese energy policy. The research and the resulting recommendations of this study have fed directly into the Chinese government's 13th Five-Year Plan, and provide unique insights into the Chinese government and policy-making. Due to its global impact, the book is a valuable resource for policy makers in both China and the rest of the world.

Introduction to Oil Company Financial Analysis Pennwell Corporation Offering a clear explanation of financial statements with a practical approach to the analysis of an oil company, this introduction contains tables, figures, and worksheets, and examples of analysis of virtually every aspect of an oil company are provided in detail. Financial quick-look techniques, rules of thumb, commentary, and a glossary are included.

Dictionary of Oil, Gas, and Petrochemical Processing CRC Press In industry, miscommunication can cause frustration, create downtime, and even trigger equipment failure. By providing a common ground for more effective discourse, the Dictionary of Oil, Gas, and Petrochemical Processing can help eliminate costly miscommunication. An essential resource for oil, gas, and petrochemical industry professionals, engineer

Offshore Operations and Engineering CRC Press This book provides a comprehensive understanding of each aspect of offshore operations including conventional methods of operations, emerging technologies, legislations, health, safety and environment impact of offshore operations. The book starts by coverage of notable offshore fields across the globe and the statistics of present oil production, covering all types of platforms available along with their structural details. Further, it discusses production, storage and transportation, production equipment, safety systems, automation, storage facilities and transportation. Book ends with common legislation acts and comparison of different legislation acts of major oil/gas producing nations. The book is aimed at professionals and researchers in petroleum engineering, offshore technology, subsea engineering, and

Explores the engineering, technology, system, environmental, operational and legislation aspects of offshore productions systems Covers most of the subsea engineering material in a concise manner Includes legislation of major oil and gas producing nations pertaining to offshore operations (oil and gas) Incorporates case studies of major offshore operations (oil and gas) accidents and lessons learnt Discusses environment impact of

offshore operations **Fire officer's handbook of tactics Study guide** PennWell Books *Modern firefighting is a continually evolving science with new technologies constantly being applied to the fire service. In the latest edition of this perennial favorite, Norman examines these new technologies and how they affect fire ground tactics. He also details the new role firefighters play in homeland security.* **The New Geopolitics of Natural Gas** Harvard University Press *As the United States aggressively expands its exports of liquefied natural gas, it stands poised to become an energy superpower. This unanticipated reality is rewriting the conventional rules of intercontinental gas trade and realigning strategic relations among the United States, the European Union, Russia, China and beyond, as Agnia Grigas shows.* **Handbook of Offshore Oil and Gas Operations** Elsevier *Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up-to-date coverage of the technology used in the exploration, drilling, production, and operations in an offshore setting. Offshore oil and gas activity is growing at an expansive rate and this must-have training guide covers the full spectrum including geology, types of platforms, exploration methods, production and enhanced recovery methods, pipelines, and environmental management and impact, specifically worldwide advances in study, control, and prevention of the industry's impact on the marine environment and its living resources. In addition, this book provides a go-to glossary for quick reference. Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today. Quickly become familiar with the oil and gas offshore industry, including deepwater operations Understand the full spectrum of the business, including environmental impacts and future challenges Gain knowledge and exposure on critical standards and real-world case studies* **Arctic Offshore Oil & Gas Guidelines The Oil Curse How Petroleum Wealth Shapes the Development of Nations** Princeton University Press *Countries that are rich in petroleum have less democracy, less economic stability, and more frequent civil wars than countries without oil. What explains this oil curse? And can it be fixed? In this groundbreaking analysis, Michael L. Ross looks at how developing nations are shaped by their mineral wealth--and how they can turn oil from a curse into a blessing. Ross traces the oil curse to the upheaval of the 1970s, when oil prices soared and governments across the developing world seized control of their countries' oil industries. Before nationalization, the oil-rich countries looked much like the rest of the world; today, they are 50 percent more likely to be ruled by autocrats--and twice as likely to descend into civil war--than countries without oil. The Oil Curse shows why oil wealth typically creates less economic growth than it should; why it produces jobs for men but not women; and why it creates more problems in poor states than in rich ones. It also warns that the global thirst for petroleum is causing companies to drill in increasingly poor nations, which could further spread the oil curse. This landmark book explains why good geology often leads to bad governance, and how this can be changed.* **Trading Natural Gas A Nontechnical Guide** Pennwell Books *This how to book covers the various mechanics of natural gas trading, including the physical (cash) market for natural gas production, transportation, distribution, and consumption. It has been 23 years since Trading Natural Gas: A Nontechnical Guide was released, and many things have changed: electronic trading, power market deregulation,*

fracking and the shale revolution, pipelines reversing flow patterns, and LNG exports from the United States. In this second edition, the author addresses these changes, beginning with a deeper dive into the natural gas market fundamentals of supply, demand, storage, and transportation, maintaining a focus on the relationship to market pricing. Following discussion of the mechanics of trading physical natural gas, the heart of the text remains a study of financial derivative products specific to natural gas trading, presented through definitions and trading examples. Many of these products and concepts are still current and have been refreshed and kept intact. New material on the role of natural gas in the power market as it relates to fuel-switching and economic dispatch, as well as a survey of the global LNG market and US exports, is included in this second edition to bring in two of the biggest factors influencing prices in today's market. Additional statistics, tables, graphs and suggested spreadsheet templates have been provided throughout the book to help visualize many of the discussions on data. Features and Benefits Supply / Demand Fundamentals Market overviews (financial and physical) Contracts Derivatives Technical Analysis Risk Controls Audience Field level personnel Management Energy lending and finance professionals Anyone who seeks to understand how, or relies upon, energy markets Students

Fundamentals of Natural Gas Processing [CRC Press](#) *Fundamentals of Natural Gas Processing* explores the natural gas industry from the wellhead to the marketplace. It compiles information from the open literature, meeting proceedings, and experts to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future. This book covers **Commodity Option Pricing A Practitioner's Guide** [John Wiley & Sons](#) *Commodity Option Pricing: A Practitioner's Guide* covers commodity option pricing for quantitative analysts, traders or structurers in banks, hedge funds and commodity trading companies. Based on the author's industry experience with commodity derivatives, this book provides a thorough and mathematical introduction to the various market conventions and models used in commodity option pricing. It introduces the various derivative products typically traded for commodities and describes how these models can be calibrated and used for pricing and risk management. The book has been developed with input from traders and examples using real world data, together with relevant up to date academic research. The book includes practical descriptions of market conventions and quote codes used in commodity markets alongside typical products seen in broker quotes and used in calibration. Also discussed are commodity models and their mathematical derivation and volatility surface modelling for traded commodity derivatives. Gold, silver and other precious metals are addressed, including gold forward and gold lease rates, as well as copper, aluminium and other base metals, crude oil and natural gas, refined energy and electricity. There are also sections on the products encountered in commodities such as crack spread and spark spread options and alternative commodities such as carbon emissions, weather derivatives, bandwidth and telecommunications trading, plastics and freight. *Commodity Option Pricing* is ideal for anyone working in commodities or aiming to make the transition into the area, as well as academics needing to familiarize themselves with the industry conventions of the commodity markets.

Introduction to Process Safety for Undergraduates and Engineers [John Wiley & Sons](#) *Familiarizes the student or an engineer*

new to process safety with the concept of process safety management Serves as a comprehensive reference for Process Safety topics for student chemical engineers and newly graduate engineers Acts as a reference material for either a stand-alone process safety course or as supplemental materials for existing curricula Includes the evaluation of SACHE courses for application of process safety principles throughout the standard Ch.E. curricula in addition to, or as an alternative to, adding a new specific process safety course Gives examples of process safety in design

Balancing Petroleum Policy Toward Value, Sustainability, and Security World Bank Publications *Petroleum discovery in a country presents its policy makers with a challenging and complex task: formulating and agreeing on policies that will shape the country's petroleum sector and guide the translation of the newly discovered resources into equitable and sustainable economic and social growth for the nation over the long term. Balancing Petroleum Policy provides policy makers and other stakeholders with the basic sector-related knowledge they need to embark on this task. It introduces a number of topics: the petroleum value chain and pivotal factors affecting value creation, a consultative process for developing a nation's common vision on key petroleum development objectives, design of a legislative and contractual framework, petroleum fiscal regimes and their administration, prudent fiscal management, transparency and governance, environmental and social safeguards, and economic diversification through industrial linkages. Although much of the material is relevant to designing policies for the development of the petroleum sector in general, the book gives special focus to developing countries, countries in a federal or devolved setting, and countries that have experienced or are still experiencing civil conflict. With this focus in mind, the book examines three questions—ownership, management, and revenue sharing of petroleum resources—that are central to petroleum policy in any federal or devolved state. It also offers important perspectives on how to prevent violent conflicts related to such resources. Petroleum policies tend to vary significantly from country to country, as do the objectives that such policies aim to achieve in the specific context of each particular country. Although there is no one-size-fits-all policy and there are no clear-cut answers to the many potential policy dilemmas associated with the discovery of petroleum resources, this publication may help policy makers find the right balance among the chosen objectives—and the right policy choices to achieve these objectives.*

Mitigating Vulnerability to High and Volatile Oil Prices Power Sector Experience in Latin America and the Caribbean World Bank Publications *This book addresses the need of oil-importing countries to mitigate vulnerability to oil price volatility. It offers financial instruments to manage price risk, complemented by structural measures designed to reduce oil consumption.*

The Baku-Tbilisi-Ceyhan Pipeline Oil Window to the West Managing Pipeline Threats Principles and Methods of Pipeline Protection and Safety Assurance Clarion Technical Conferences LLC *This book is an introduction to managing threats in pipelines. Everyone working in the pipeline industry - and anyone concerned with safe and reliable operation of pipelines - needs to be aware of threats and must understand how the resulting risks are managed. The book opens with an introductory overview and a chapter on 'Pipeline Engineering Principles,' which introduces the reader to the infrastructure that transports our energy around the world: crude oil and natural gas pipelines. It*

also gives basic principles in pipeline engineering and explains some pipeline design concepts. Pipelines are made using steel tubes called 'line pipe, ' and Chapter 3, 'Line Pipe Principles, ' covers the manufacture of this line pipe and the standards used to ensure high quality. Chapter 4, an 'Introduction to In-line inspection, or ILI - the use of inspection tools inside a pipeline - reviews the in-line inspection tools available today for inspecting all the types of high-pressure pipelines. Chapters 5 through 12 cover some of the main threats to pipelines: corrosion, cracking, mechanical damage, geohazards, material and construction defects, theft, and specific threats to submarine pipelines. Chapter 13, 'Pipeline Defect Assessment Basics, ' introduces the reader to methods for assessing the significance of pipeline defects such as corrosion and dents. Chapter 14 is devoted to 'Pipeline Integrity Management.' Integrity management is part of asset management and includes the many and varied activities pipeline operators must undertake to ensure that releases of products from their pipelines do not occur. In the final chapter several eminent figures in the pipeline industry share their thoughts on the state of current technology and the needs and promise of the future.