

The Global Oil Gas Industry Management Strategy And Finance

This book brings together contributions from leading scientists, academics, and experts from the oil and gas industry to discuss microbial-related problems faced by the industry and how bioinformatics and an interdisciplinary scientific approach can address these challenges. *Microbial Bioinformatics in the Oil and Gas Industry: Applications to Reservoirs and Processes* presents the major industrial problems caused by microbes (e.g., souring, biocorrosion) as well as the beneficial activities (e.g., biofuels, bioremediation). **FEATURES** Offers a detailed description of how bioinformatics has advanced our understanding of numerous issues in the oil and gas industry Covers cases from geographically diverse oil fields, laboratories, and research groups Contains fundamentals and applied information of relevance to the oil and gas sector Presents contributions from a team of international experts across industry and academia With its cross-disciplinary approach, this comprehensive book provides microbial ecologists, molecular biologists, operators, engineers, chemists, and academics involved in the sector with an improved understanding of the significance of microbial bioinformatics applications in the oil and gas industry.

Risk Management in the Oil and Gas Industry: Offshore and Onshore Concepts and Case Studies delivers the concepts, strategies and good practices of offshore and onshore safety engineering that are applicable to petroleum engineering and immediately surrounding industries. Guided by the strategic risk management line, this reference organizes steps in order of importance and priority that should be given to the themes in the practical exercise of risk management activities, from the conceptual and design phase to operational and crisis management situations. Each chapter is packed with practical case studies, lessons learned, exercises, and review questions. The reference also touches on the newest techniques, including liquefied natural gas (cryogenics) operations and computer simulations that contemplate the influence of human behavior. Critical for both the new and experienced engineer, this book gives the best didactic tool to perform operations safely and effectively. Helps readers by presenting practical case studies and exercises that are included in every chapter Presents an understanding on how to approach and apply best practices specific to the oil and gas industry, both offshore and onshore Provides the knowledge needed to gain new techniques in computer simulation and human factors to apply to various sectors of the industry, including subsea and refineries

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.

Provides examples of challenges in decision making, changing business practices, and the difficulties in executing complex projects across the global industry. From border disputes over mineral rights to the emergence of industry disrupters, each story presents contemporary issues to distil lessons that are transferrable to management challenges inside and outside of the global oil and gas industry.

Atmospheric Impacts of the Oil and Gas Industry provides the most up-to-date scientific and technological methods available to quantify oil and gas industry emissions and atmospheric impacts in a manner that is relevant to the development of, compliance with, and enforcement of effective policy and regulations. The book offers a concise survey of these methods to facilitate the implementation of solutions that promote sustainable energy production. Part I covers a technical and descriptive summary of air quality and global change issues relevant to the oil and gas industry, with Part II summarizing state-of-the-art methods pertaining to the analysis and solution of the problems identified in the earlier section. Examples of state-of-the-art methods covered include real-time monitoring with chemical ionization mass spectrometry, drone-mounted mini-lasers and gas cells, tomographic remote sensing, inverse modeling of emissions, 3D fluid, chemical, and transport models, and contemporary control technologies, such as flare minimization, oxidation catalysts, and vapor recovery. In addition, field studies, policy-relevant modeling assessments, and regulatory decisions from multiple geographic regions are presented, providing readers best practices from real world applications. Addresses major environmental issues of concern as a result of the oil and gas industry Reflects a balanced, objective view that is based on scientific principles Provides a wide geographical perspective Presents a rigorous and comprehensive scientific basis for crafting solutions to air quality problems created by the oil and gas industry

The author offers a dark, serpentine, riveting tour of the unimaginably lucrative and corrupt oil-and-gas industry. With her trademark black humor, Maddow exposes the greed and incompetence of Big Oil and Gas.

To the casual observer, the oil business seems constant and unchanging. Most gasoline stations have done away with attendant services, and credit cards are accepted directly at the pump, but drive-in access and brand names remain largely as they have been for generations. The faade, however, is just that; it is like the false front of a Western town put in place to make everything seem bigger and grander than it really is. The familiarity of the oil industry's retail outlets masks extraordinary changes in how the industry engages in its four primary sectors of activity: finding and producing crude oil, transportation, refining, and marketing. The effect of corrosion in the oil industry leads to the failure of parts. This failure results in shutting down the plant to clean the

facility. The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at \$27 billion (According to NACE International)—leading some to estimate the global annual cost to the oil and gas industry as exceeding \$60 billion. In addition, corrosion commonly causes serious environmental problems, such as spills and releases. An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure, *Corrosion Control in the Oil and Gas Industry* provides engineers and designers with the tools and methods to design and implement comprehensive corrosion-management programs for oil and gas infrastructures. The book addresses all segments of the industry, including production, transmission, storage, refining and distribution. Selects cost-effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1,000 industry best practices and international standards

Oil and Gas explores the business and politics of this complex industry from a regional perspective. This book combines theory, practice and a range of international case studies to provide a comprehensive overview of energy management.

Production chemistry issues result from changes in well stream fluids, both liquid and gaseous, during processing. Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids, it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved. Modern production methods, the need to upgrade crude oils of variable quality, and environmental constraints demand chemical solutions. Thus, oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems. *Production Chemicals for the Oil and Gas Industry, Second Edition* discusses a wide variety of production chemicals used by the oil and gas industry for down-hole and topside applications both onshore and offshore.

Incorporating the large amount of research and applications since the first edition, this new edition reviews all past and present classes of production chemicals, providing numerous difficult-to-obtain references, especially SPE papers and patents. Unlike other texts that focus on how products perform in the field, this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance—information that is very useful for research and development. Each updated chapter begins by introducing a problem, such as scale or corrosion, for which there is a production chemical. The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in-depth descriptions of the structural classes of relevant production chemicals. He also mentions, when available, the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field. This edition includes two new chapters and nearly 50 percent more references.

The Global Oil & Gas Industry Management, Strategy & Finance Pennwell Corporation

Global Oil & Gas Industry Directory

This book addresses energy research from four distinct International Political Economy perspectives: energy security, governance,

legal and developmental areas. Energy is too important to be neglected by political scientists. Yet, within the mainstream of the discipline energy research still remains a peripheral area of academic enquiry seeking to plug into the discipline's theoretical debates. The purpose of this book is to assess how existing perspectives fit with our understanding of social science energy research by focusing on the oil and gas dimension.

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.

Machine Learning and Data Science in the Oil and Gas Industry explains how machine learning can be specifically tailored to oil and gas use cases. Petroleum engineers will learn when to use machine learning, how it is already used in oil and gas operations, and how to manage the data stream moving forward. Practical in its approach, the book explains all aspects of a data science or machine learning project, including the managerial parts of it that are so often the cause for failure. Several real-life case studies round out the book with topics such as predictive maintenance, soft sensing, and forecasting. Viewed as a guide book, this manual will lead a practitioner through the journey of a data science project in the oil and gas industry circumventing the pitfalls and articulating the business value. Chart an overview of the techniques and tools of machine learning including all the non-technological aspects necessary to be successful Gain practical understanding of machine learning used in oil and gas operations through contributed case studies Learn change management skills that will help gain confidence in pursuing the technology Understand the workflow of a full-scale project and where machine learning benefits (and where it does not)

Delves into the core and functional areas in the upstream oil and gas industry covering a wide range of operations and processes Oil and gas exploration and production (E&P) activities are costly, risky and technology-intensive. With the rise in global demand for oil and fast depletion of easy reserves, the search for oil is directed to more difficult areas – deepwater, arctic region, hostile terrains; and future production is expected to come from increasingly difficult reserves – deeper horizon, low quality crude. All these are making E&P activities even more challenging in terms of operations, technology, cost and risk. Therefore, it is necessary to use scarce resources judiciously and optimize strategies, cost and capital, and improve business performance in all spheres of E&P business. Optimization and Business Improvement Studies in Upstream Oil and Gas Industry contains eleven real-life optimization and business improvement studies that delve into the core E&P activities and functional areas covering a wide range of operations and processes. It uses various quantitative and qualitative techniques, such as Linear Programming, Queuing theory, Critical Path Analysis, Economic analysis, Best Practices Benchmark, Business Process Simplification etc. to optimize Productivity of drilling operations Controllable rig time loss Deepwater exploration strategy Rig move time and activity schedule Offshore supply vessel fleet size Supply chain management system Strategic workforce and human resource productivity Base oil price for a country Standardize consumption of materials Develop uniform safety standards for offshore installations Improve organizational efficiency through business process simplification The book will be of immense interest to practicing managers, professionals and employees at all levels/ disciplines in oil and gas industry. It will also be useful to academicians, scholars, educational institutes,

energy research institutes, and consultants dealing with oil and gas. The work can be used as a practical guide to upstream professionals and students in petroleum engineering programs.

The history of the European oil and gas industry reflects local as well as global political events, economic constraints and the personal endeavours of individual petroleum geoscientists as much as it does the development of technologies and the underlying geology of the region. The first commercial oil wells in Europe were drilled in Poland in 1853, Romania in 1857, Germany in 1859 and Italy in 1860. The 23 papers in this volume focus on the history and heritage of the oil and gas industry in the key European oil-producing countries from the earliest onshore drilling to its development into the modern industry that we know today. The contributors chronicle the main events and some of the major players that shaped the industry in Europe. The volume also marks several important anniversaries, including 150 years of oil exploration in Poland and Romania, the centenary of the drilling of the first oil well in the UK and 50 years of oil production from onshore Spain.

In this book, the author draws upon his training in political science and experience as an energy consultant at Atlantis, Inc. It explores the conflicting interests of host and firm, and discusses the way firms use political risk analyses leads us to the issue of managing political risk.

Information on largest oil and gas companies worldwide. Strategic information on oil and gas industry in selected countries and worldwide. Updated annually

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.

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.

Project management for oil and gas projects comes with a unique set of challenges that include the management of science, technology, and engineering aspects. Underlining the specific issues involved in projects in this field, *Project Management for the Oil and Gas Industry: A World System Approach* presents step-by-step application of project management techniques. Using the Project Management Body of Knowledge (PMBOK®) framework from the Project Management Institute (PMI) as the platform, the book provides an integrated approach that covers the concepts, tools, and techniques for managing oil and gas projects. The authors discuss specialized tools such as plan, do, check, act (PDCA); define, measure, analyze, improve, control (DMAIC); suppliers, inputs, process, outputs, customers (SIPOC); design, evaluate, justify, integrate (DEJI); quality function deployment (QFD); affinity diagrams; flowcharts; Pareto charts; and histograms. They also discuss the major activities in oil and gas risk assessment, such as feasibility studies, design, transportation, utility, survey works, construction, permanent structure works, mechanical and electrical installations, and maintenance. Strongly advocating a world systems approach to managing oil and gas projects and programs, the book covers quantitative and qualitative techniques. It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real-life project scenarios that can serve as lessons learned for best practices. An in-depth examination of project management for oil and gas projects, the book is a handbook for professionals in the field, a guidebook for technical consultants, and a resource for students.

"Oil is a fairy tale, and, like every fairy tale, is a bit of a lie."—Ryszard Kapuscinski, *Shah of Shahs* The scale and reach of the global oil and gas industry, valued at several trillions of dollars, is almost impossible to grasp. Despite its vast technical expertise and scientific sophistication, the industry betrays a startling degree of inexactitude and empirical disagreement about foundational questions of quantity, output, and price. As an industry typified by concentrated economic and political power, its operations are obscured by secrecy and security. Perhaps it is not surprising, then, that the social sciences typically approach oil as a metonym—of modernity, money, geopolitics, violence, corruption, curse, ur-commodity—rather than considering the daily life of the industry itself and of the hydrocarbons around which it is built. *Subterranean Estates* gathers an interdisciplinary group of scholars and experts to instead provide a critical topography of the hydrocarbon industry, understood not solely as an assemblage of corporate forms but rather as an expansive and porous network of laborers and technologies, representation and expertise, and the ways of life oil and gas produce at

points of extraction, production, marketing, consumption, and combustion. By accounting for oil as empirical and experiential, the contributors begin to demystify a commodity too often given almost demiurgic power. Subterranean Estates shifts critical attention away from an exclusive focus on global oil firms toward often overlooked aspects of the industry, including insurance, finance, law, and the role of consultants and community organizations. Based on ethnographic research from around the world (Equatorial Guinea, Nigeria, Oman, the United States, Ecuador, Chad, the United Kingdom, Kazakhstan, Canada, Iran, and Russia), and featuring a photoessay on the lived experiences of those who inhabit a universe populated by oil rigs, pipelines, and gas flares, this innovative volume provides a new perspective on the material, symbolic, cultural, and social meanings of this multidimensional world.

This book examines the financial, legal and institutional strategies available to the international oil and gas industry to manage political and investment risk. The financial techniques for mitigating and allocating risk include corporate finance, joint ventures, and project finance. The legal techniques include production sharing agreements, profit sharing agreements, service contracts, bilateral investment treaties, and multilateral investment treaties. The institutional techniques include domestic courts, national constitutions, international arbitral tribunals, governmental and non-governmental regulatory agencies, alliances and energy diplomacy. This book traces the historical development of these techniques and their application in practice. The effectiveness with which companies manage political and investment risk is important for the financial sustainability of individual firms and the industry as whole. The real and perceived level of risk affects the level of exploration expenditures and therefore the balance between supply and demand, and the price of oil and natural gas. The search for a secure supply of oil and gas affects the political, military, and economic relations between countries. Consequently, every developed and developing country has placed energy policy at or near the top of its national priorities.

The oil and gas industry is at a crossroads. Recent low prices, rapidly growing alternative fuels like renewables, the permanent swing from peak oil to super abundance, shifting consumer preferences, and global pressures to decarbonize suggest a challenged industry for the foreseeable future. Digital advances offer ways to lower costs of production, improve productivity, reduce carbon emissions, and regain public confidence. A wait-and-see attitude to digital innovation has failed many industries already, and the leaders of oil and gas urgently need guidance on how digital both disrupts and enhances their industry. Written by the world's leading experts on the intersection of digital technologies and the oil and gas industry, Bits, Bytes, and Barrels sets out the reasons why adoption is slow, describes the size and scale of both the opportunity and the threat from digital, identifies the key digital technologies and the role that they play in a digital future, and recommends a set of actions for leaders to take to accelerate the adoption of digital in the business. Providing an independent and expert perspective, Bits, Bytes, and Barrels addresses the impacts of digital across the breadth of the industry--from onshore to offshore, from upstream to midstream to integrated--and outlines a roadmap to help the decision-makers at all levels of the industry take meaningful action

toward promising and rewarding digital adoption.

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

A number of countries have recently discovered and are developing oil and gas reserves. Policy makers in such countries are anxious to obtain the greatest benefits for their economies from the extraction of these exhaustible resources by designing appropriate policies to achieve desired goals. One important theme of such policies is the so-called local content created by the sector—the extent to which the output of the extractive industry sector generates further benefits to the economy beyond the direct contribution of its value-added, through its links to other sectors. While local content policies have the potential to stimulate broad-based economic development, their application in petroleum-rich countries has achieved mixed results. This paper describes the policies and practices meant to foster the development of economic linkages from the petroleum sector, as adopted by a number of petroleum-producing countries both in and outside the Organisation for Economic Co-operation and Development. Examples of policy objectives, implementation tools, and reporting metrics are provided to derive lessons of wider applicability. The paper presents various conclusions for policy makers about the design of local content policies. Firm-to-firm relationships, along with the overall structure of industry, have changed markedly over the past decades. Replacing the model of vertical integration with one of global business, firms have started to outsource more by using a wider global network. At the same time, they have begun to increase their control and coordination along the value chain to remain competitive, blurring the boundaries between companies. Understanding the nature of the firm and its role in coordinating the supply chain will help firms to better define global competitive strategies.. The challenges that lie ahead for global business render obsolete the traditional model of procuring each service without long-term supply chain management. Current trends suggest that in the future there will be even deeper supply chain integration in most industries. The Nature of the Firm in the Oil Industry aims to facilitate the understanding of 'the firm' via the analysis of the specific relationship between international oil companies, which are among the world's biggest firms and which act as 'core system integrators', and the oil services companies, which help to find, extract, produce and distribute oil along the petroleum industry supply chain. This relationship serves as an example of deep integration by core system integrators and provides insights into the change in the nature of the firm in the era of modern globalization. Aimed at researchers and academics, The Nature of the Firm in the Oil Industry offers a thorough examination of this relationship in an effort to shed light on the nature of the firm, both in the oil industry and in global business today. It is a humble attempt to

better understand the firm in a crucial industry.

This magazine book will give you information about the oil and gas industry in the largest terms of trade shock in history. This edition offers a detailed expert analysis of the fluctuations in the oil and gas industry at this difficult time. The good news is that the industry will not only survive this cyclical shock - the largest in history - but also will emerging stronger, much stronger, out on the other side. Last year 3 percent, real GDP growth 300,000 jobs created the highest number since 2006 before the GFC.

Multidisciplinary perspectives to governance of oil in African countries Large quantities of oil were discovered in the Albertine Rift Valley in Western Uganda in 2006. The sound management of these oil resources and revenues is undoubtedly one of the key public policy challenges for Uganda as it is for other African countries with large oil and/or gas endowments. With oil expected to start flowing in 2021, the current book analyses how this East African country is preparing for the challenge of effectively, efficiently, and transparently managing its oil sector and resources. Adopting a multidisciplinary, comprehensive, and comparative approach, the book identifies a broad scope of issues that need to be addressed in order for Uganda to realise the full potential of its oil wealth for national economic transformation. Predominantly grounded in local scholarship and including chapters drawing on the experiences of Nigeria, Ghana, and Kenya, the book blazes a trail on governance of African oil in an era of emerging producers. *Oil Wealth and Development in Uganda and Beyond* will be of great interest to social scientists and economic and social policy makers in oil-producing countries. It is suitable for course adoption across such disciplines as International/Global Affairs, Political Economy, Geography, Environmental Studies, Economics, Energy Studies, Development, Politics, Peace, Security and African Studies. Contributors: Badru Bukenya (Makerere University), Moses Isabirye (Busitema University), Wilson Bahati Kazi (Uganda Revenue Authority), Corti Paul Lakuma (Economic Policy Research Centre), Joseph Mawejeje (Economic Policy Research Centre), Pamela Mbabazi (Uganda National Planning Authority), Martin Muhangi (independent researcher), Roberts Muriisa (Mbarara University of Science and Technology), Chris Byaruhanga Musiime (independent researcher), Germano Mwabu (University of Nairobi), Jackson A. Mwakali (Makerere University), Tom Owang (Mbarara University of Science and Technology), Joseph Oloka-Onyango (Makerere University), Peter Quartey (University of Ghana), Peter Wandera (Transparency International Uganda), Kathleen Brophy (Transparency International Uganda), Jaqueline Nakaiza (independent researcher), Babra Beyeza (independent researcher), Jackson Byaruhanga (Bank of Uganda), Emmanuel Abbey (University of Ghana).

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.

Volume 2 of the Getenergy Guides series explores the challenges of developing a technically competent workforce for the oil and gas sector globally. The cases in this Volume explore practical examples of the efforts of oil and gas companies, contractors, educational institutions and governments to develop competent, vocationally-trained employees for the industry. Education and training are increasingly viewed as part of the core business of oil and gas companies operating in today's high cost/high risk environment. This book will highlight the approaches

which work and offer a framework against which future initiatives can be measured. This second book in the Getenergy Guides series explores nine cases studies from around the world and offers commentary on each case drawn from Getenergy's wealth of experience in uniting education and training providers and the upstream oil and gas industry on a global basis. Edited by Getenergy's Executive Team which – for more than a decade – has specialised in mapping and connecting the world of education and training with the upstream oil and gas industry through global events and workshops Detailed research into the key facts surrounding each case with analysis to enable readers to quickly and effectively extract lessons that can be applied to the challenge of building a technically competent workforce Highlights the aspects of good practice that can be utilised by universities, colleges and training providers in meeting the workforce and skills development needs of the oil and gas industry Includes full colour images and partnership diagrams' to underscore key concepts Offers specific commentary on the replicability, sustainability and impact of the approaches outlined

This book answers the following questions: How will the global oil and gas market change in the next decade? How does the United States become the world's biggest oil and gas producer? What is the current condition of China's Shale Industry and energy security? Is hydraulic fracturing and horizontal drilling technology cheered or feared? Is energy production driven by economy or environment? Who are the major competitors in this market? This book covers not only macro analysis at country-level, but also micro analysis at firm-level, which helps investigate this industry more comprehensively.

A prominent linchpin in world politics and in security policies world over, oil and gas have tremendous value in both, the political and economical sectors of global relations, business establishments and policy. Regardless of whether one is a novice to a given field, or a well accomplished veteran in the field, there is a need for the continued engagement with the basics that underlie the core subjects. With that in mind, the Fundamentals of Oil and Gas is a perfect primer for the first-timer in the field, while also a copious text to help a seasoned veteran stay abreast with the nuances of the world of Oil and Gas.

Petroleum is now so deeply entrenched in our economy, our politics, and our personal expectations that even modest efforts to phase it out are fought tooth and nail by the most powerful forces in the world: companies and governments that depend on oil revenues; the developing nations that see oil as the only means to industrial success; and a Western middle class that refuses to modify its energy-dependent lifestyle. But within thirty years, by even conservative estimates, we will have burned our way through most of the oil that is easily accessible. And well before then, the side effects of an oil-based society—economic volatility, geopolitical conflict, and the climate-changing impact of hydrocarbon pollution—will render fossil fuels an all but unacceptable solution. How will we break our addiction to oil? And what will we use in its place to maintain a global economy and political system that are entirely reliant on cheap, readily available energy? Brilliantly reported from around the globe, *The End of Oil* brings the world situation into fresh and dramatic focus for business and general readers alike. Roberts talks to both oil optimists and oil pessimists, delves deep into the economics and politics of oil, considers the promises and pitfalls of alternatives, and shows that, although the world energy system has begun its epoch-defining transition, disruption and violent dislocation are almost assured if we do not take a more proactive stance. With the topicality and readability of *Fast Food Nation* and the scope and trenchant analysis of *Guns, Germs, and Steel*, this is a vitally important book for the new century.

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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.

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