

Oil Gas Company Analysis Upstream Midstream And Downstream

This new guide to oil and gas trading aims to fill a gap not currently supplied by other reference books on sale-of-goods law and charters by focusing on the day-to-day realities of trading in the sector. It examines the way in which the oil and gas market operates in practice, taking note of real-life situations that can arise.

The business of upstream oil and gas industry is a complex process that involves multidisciplinary participation.

Producing crude oil and natural gas from the subsurface reservoir rocks to the point of the selling terminal requires stage by stage processes that costs several hundreds of millions of dollars to the operating companies. Because of the capital intensive nature of upstream investments, every required process is challenged of its economic impact or benefits it will have on the project's net present value (NPV). The techniques applied in determining the economics of these processes and their selection criteria are addressed in the book. This book guides the reader through these strategic processes, and presents the participants involved in the business of upstream oil and gas prospecting and the conditions that dictate the field development and investment decisions by investors. It also reveals the shared interests and relationships that exist between international oil companies (IOCs) and national oil companies (NOCs) in the exploration and exploitation of their hydrocarbon resources and reserves. This text will serve the purpose of teaching and learning to those in the energy and financial sectors, as the methods, tools, and techniques discussed throughout the chapters will equip students, tutors, experts, and professionals with the necessary skills and knowledge of Exploration and Production (E&P) projects and energy financing and investment. The principles of project management as it applies in upstream oil/gas projects are discussed as well. And the criteria for project ranking, selection, and budgeting which are sine qua non to project financing and execution are well documented in this book.

Microorganisms are ubiquitously present in petroleum reservoirs and the facilities that produce them. Pipelines, vessels, and other equipment used in upstream oil and gas operations provide a vast and predominantly anoxic environment for microorganisms to thrive. The biggest technical challenge resulting from microbial activity in these engineered environments is the impact on materials integrity. Oilfield microorganisms can affect materials integrity profoundly through a multitude of elusive (bio)chemical mechanisms, collectively referred to as microbiologically influenced corrosion (MIC). MIC is estimated to account for 20 to 30% of all corrosion-related costs in the oil and gas industry. This book is intended as a comprehensive reference for integrity engineers, production chemists, oilfield microbiologists, and scientists working in the field of petroleum microbiology or corrosion. Exhaustively researched by leaders from both industry and academia, this book discusses the latest technological and scientific advances as well as relevant case studies to convey to readers an understanding of MIC and its effective management.

As one of the most complex industries in the world, this book provides readers with an in-depth coverage of companies that operate in all sectors of the oil & gas industry, that is Upstream, Midstream and Downstream. This book sets out to evaluate companies through upstream, midstream and downstream financial and operational metrics (covered in the first 4 chapters of the book), and to provide an overview of more than 30 companies in different categories, such as National Oil Companies, International Oil Companies, Independent E&P, Pure Play Refining Companies, Service Companies and Royalty Trusts. Key benefits from reading this book: • Understand the different sectors in the oil & gas industry, their business cycles, unique opportunities and challenges. • Understand how financial and operational metrics for companies inside and outside the oil & gas industry are calculated and understand their importance. • Get to know different oil & gas companies in the industry, from both an international and U.S. perspective. • Gain awareness of what different businesses oil & gas companies are involved in and where they operate. The book is organized into 12 chapters: • Chapter 1 provides an overview of oil & gas as commodities as well as the industry, current supply and demand of energy scenarios and provides a detailed explanation of several financial metrics. • Chapters 2, 3 & 4 introduce the Upstream, Midstream & Downstream sectors of the industry and explain relevant sector metrics. • Chapters 5 & 6 discuss 12 National Oil Companies or NOC's, their current operations and applicable metrics. • Chapter 7 reviews 4 integrated oil & gas companies, their areas of operations and provides an analysis of current financial and operating results using the metrics introduced in this book. • Chapter 8 reviews 6 independent exploration & production companies, their areas of operations and provides an analysis of current financial and operating results using the metrics introduced in this book. • Chapter 9 reviews 3 independent downstream companies, their areas of operations and provides an analysis of current financial and operating results using the metrics introduced in this book. • Chapter 10 reviews 4 midstream companies, their areas of operations and provides an analysis of current financial and operating results using the metrics introduced in this book. • Chapter 11 discusses 5 oil & gas service companies and their areas of operation. • Chapter 12 introduces the concept of royalty trusts and reviews 3 royalty trusts.

Provides comprehensive coverage of corrosion inhibitors in the oil and gas industries Considering the high importance of corrosion inhibitor development for the oil and gas sectors, this book provides a thorough overview of the most recent advancements in this field. It systematically addresses corrosion inhibitors for various applications in the oil and gas value chain, as well as the fundamentals of corrosion inhibition and interference of inhibitors with co-additives. Corrosion Inhibitors in the Oil and Gas Industries is presented in three parts. The first part on Fundamentals and Approaches focuses on principles and processes in the oil and gas industry, the types of corrosion encountered and their control methods, environmental factors affecting inhibition, material selection strategies, and economic aspects of corrosion. The second part on Choice of Inhibitors examines corrosion inhibitors for acidizing processes, inhibitors for sweet and sour corrosion, inhibitors in refinery operations, high-temperature corrosion inhibitors, inhibitors for challenging corrosive environments, inhibitors for microbiologically influenced corrosion, polymeric inhibitors, vapor phase inhibitors, and smart controlled release inhibitor systems. The last part on Interaction with Co-additives looks at industrial co-additives and

their interference with corrosion inhibitors such as antiscalants, hydrate inhibitors, and sulfide scavengers. -Presents a well-structured and systematic overview of the fundamentals and factors affecting corrosion -Acts as a handy reference tool for scientists and engineers working with corrosion inhibitors for the oil and gas industries -Collectively presents all the information available on the development and application of corrosion inhibitors for the oil and gas industries -Offers a unique and specific focus on the oil and gas industries Corrosion Inhibitors in the Oil and Gas Industries is an excellent resource for scientists in industry as well as in academia working in the field of corrosion protection for the oil and gas sectors, and will appeal to materials scientists, electrochemists, chemists, and chemical engineers.

Engineers seek solutions to problems, and the economic viability of each potential solution is normally considered along with the technical merits. This is typically true for the petroleum sector, which includes the global processes of exploration, production, refining, and transportation. Decisions on an investment in any oil or gas field development are made on the basis of its value, which is judged by a combination of a number of economic indicators. Economic Analysis of Oil and Gas Engineering Operations focuses on economic treatment of petroleum engineering operations and serves as a helpful resource for making practical and profitable decisions in oil and gas field development. Reflects major changes over the past decade or so in the oil and gas industry Provides thorough coverage of the use of economic analysis techniques in decision-making in petroleum-related projects Features real-world cases and applications of economic analysis of various engineering problems encountered in petroleum operations Includes principles applicable to other engineering disciplines This work will be of value to practicing engineers and industry professionals, managers, and executives working in the petroleum industry who have the responsibility of planning and decision-making, as well as advanced students in petroleum and chemical engineering studying engineering economics, petroleum economics and policy, project evaluation, and plant design.

This book critically examines different forms of petroleum contracts, the historical perspective of the oil and gas industry and the political economy of the petroleum development in Iran. In doing this, the author provides analysis of the concept of concession in oil and gas development. This is discussed through the main forms of concession contracts; namely, the classic concession contract (CCC) and the new concession contract (NCC). The book ties together much of the existing work on the history of oil and gas regulation in Iran and builds on that foundation to propose a coherent and balanced approach within the framework of the NCC. To consider the role of the NCC in developing national upstream oil and gas industry, comparative examples are drawn from countries currently using, or having previously used, NCC oil and gas contracts. The selected developed and developing countries are Brazil, Thailand, the United Kingdom, Australia and Norway. The analysis considers the extent to which the NCC has served to advance the objectives and national interests of the national governments in this industry. The book involves a comparative exploration of the utilisation of NCCs in other jurisdictions and synthesises a framework through which Iran may develop its underutilised oil and gas resources. Of interest to academics, students and practitioners throughout the world, this book focuses on the relevant aspects of Iran's Constitution and natural resource laws and makes recommendations for law reform to Iran's legal frameworks.

The definitive guide to petroleum hydrocarbon fuel spill and leak causes, prevention, response, and cost recovery Oil Spills and Gas Leaks highlights the complex nature of petroleum hydrocarbon fuel extraction methods, the unintended consequences when disasters occur, spill behavior, and environmental impact mitigation. This practical resource discusses engineering techniques; long-term biological and environmental effects; dealing with insurance claims, litigation, and legislation in overlapping jurisdictions; and much more. Featuring global case studies and best practices, this timely volume provides an in-depth understanding of how oil spills and gas leaks occur and describes the most effective environmental assessment, remediation, and restoration options available to respond to these industrial accidents. Coverage includes: The role of petroleum hydrocarbon fuels in society Geology and geochemistry of oil and gas deposits Oil and gas well drilling and production issues Hydraulic fracturing for shale gas and oil Behavior of oil spills in various environments Behavior of gas leaks in various environments Assessment of spills and leaks Toxicity issues and exposure pathways Subsurface investigations Sampling strategies and remedial approaches Sampling methods on land and offshore Prevention, oversight, and mitigation Remediation of oil spills Case histories and cost recovery Oil spills and wildlife Oil spills and safety issues Conclusions and recommendations

Please contact the authors at upstream.petroleum.in.excel@gmail.com for details of how to access the trial version of Crystal Ball, as well as the Excel and other files which are *not* part of the e-book version download. "This is a book no deal team should be without. It is a must for those involved in upstream oil and gas transactions, planning, budgeting, investment appraisal and portfolio management. Its step-by-step approach cuts through complexity, making it comprehensive and understandable by a wide range of users with a wide range of abilities. It can be used as a textbook, an introductory primer or as a handbook that you can dip in and out of or read cover to cover." —Michael Lynch-Bell, Senior Advisor, Oil & Gas, Ernst & Young LLP; ex-officio Chairman, UN Expert Group on Resource Classification In the upstream petroleum industry, it is the value of post-tax cashflows which matters most to companies, governments, investors, lenders, analysts, and advisors. Calculating these cashflows and understanding their "behavior," however, is challenging, as the industry's specialized fiscal systems can be complex, jargon-laden, and sometimes seem to be a "world of their own". Upstream Petroleum Fiscal and Valuation Modeling in Excel: A Worked Examples Approach demystifies fiscal analysis which, unlike disciplines such as Earth sciences and engineering, can be learned from a book. Written in plain English for laymen and for experienced practitioners alike, it is a reader-friendly, clear, practical, step-by-step hands-on guide for both reference and self-paced study. The book does not catalogue the 100+ different petroleum fiscal regimes in use at the time of writing. Rather, drawing on the authors' combined 48 years' experience, it takes a more timeless, generic treatment, by covering the most common variants of royalties, taxation, production sharing arrangements, bonuses and abandonment funding, through a dual approach: first, showing how to model them in Excel, and then providing interactive exercises to prompt (and answer) questions that analyze impacts on cashflows. In addition to the main text, the book consists of over 120 Excel files (ranging from modular examples to full models) in Excel 2007 and 2003 formats; over 400 pages of supplementary PDF files; VBA features to enhance model functionality; and an introduction to risk modeling with exercises for the included trial version of Oracle's Crystal Ball software. It offers both a wealth of content and models equal to or surpassing what is available from fiscal

modeling courses costing several times more; and greater insights into underlying calculations than commercially available “black box” fiscal software. New US Securities and Exchange Commission (SEC) rules planned for 2013 will force petroleum companies to disclose more fiscal information on an individual country basis. This will make it more important than ever for analysts to understand how to model oil and gas terms and the potential impacts of the disclosed government payments on future oil and gas company profitability. Due to the heavy use of graphics and cross references used in this particular text, some readers might find that the printed book offers a more optimal reading experience than certain e-formats particularly with the Kindle eMobi format.

"Understand the different businesses within the petroleum refining & marketing industry, their business cycles, unique opportunities and challenges. An easy-to-follow guide on how downstream oil & gas works"--Cover.

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

Leaders from academia and industry offer guidance for professionals and general readers on ethical questions posed by modern technology.

This book on hydrocarbon exploration and production is the first volume in the series Developments in Petroleum Science. The chapters are: The Field Life Cycle, Exploration, Drilling Engineering, Safety and The Environment, Reservoir Description, Volumetric Estimation, Field Appraisal, Reservoir Dynamic Behaviour, Well Dynamic Behaviour, Surface Facilities, Production Operations and Maintenance, Project and Contract Management, Petroleum Economics, Managing the Producing Field, and Decommissioning.

The book makes the case for process safety and provides a brief overview of the upstream industry and of CCPS Risk Based Process Safety. The majority of the book focuses on the concepts of implementing process safety in wells, onshore, offshore, and projects. Topics include Overview of Upstream Operations; Overview of Risk Based Process Safety (RBPS); Application of RBPS in Drilling, Completions, Work-Overs & Interventions, Application of RBPS in Onshore Production, Application of RBPS in Offshore Production, Application of RBPS to Engineering Design, Installation, and Construction, Future Developments in the Field Nature and Protection of Oil and Gas Rights; The Formation and Production of Oil and Gas; Ownership of Oil and Gas Rights; Kinds of Oil and Gas Interests; Protection of Oil and Gas Rights; Conveying Oil and Gas Rights; Creation and Transfer of Oil and Gas Interests; Joint Ownership of Oil and Gas Rights; Interpretive Problems in Oil and Gas Conveyancing; Oil and Gas Leasing; Essential Clauses of Modern Oil and Gas Leases; Oil and Gas Lease Savings Clauses; Lease Royalty, Clause; Implied Covenants in Oil and Gas Leases; Lease Transfers; Tax and Business Matters; Oil and Gas Contracts.

This publication provides in-depth analysis of worldwide joint operating agreements (JOAs), unit operating agreements, and similar agreements based on commonly-used forms in different jurisdictions, common modifications to those forms and rationales for those changes, and cases and secondary source material interpreting joint operating agreements. Joint operating agreements are one of the most common, and important, types of upstream oil and gas agreements. Though JOAs worldwide deal with similar issues, the ways in which these issues are handled can differ depending on the jurisdiction and type of form. By dealing with JOAs on a global scale, this publication will facilitate an understanding of these agreements generally, the terms of any particular JOA, how and why parties from other jurisdictions may view a project differently, and creative cross-cultural solutions for common JOA-related issues. The JOA treatise is unmatched by any other publication and features:

- Comprehensive coverage of the issues which have broad geographic appeal.
- Comparative analysis of different types of joint operating agreements and explanations of how the oil and gas industry functions in other jurisdictions.
- An examination of how counterparties may view certain clauses along with creative ways to deal with problems that arise during the negotiation of a JOA and the administration of an executed agreement.
- High-level discussions that permit readers new to this type of agreement to develop a solid understanding of what a joint operating is and does.
- Citations to common forms, cases, and secondary source material that serve as a reference guide for further study.

Note that this publication was originally published by The Institute for Energy Law of The Center for American and International Law and was peer reviewed by expert practitioners.

Performance analysis is generally conducted in the higher echelons of an oil and gas company, and thus its value in creating actionable information at the field level is generally lost. This book seeks to bridge this gap by introducing the basic concepts of oil and gas performance analysis.

OIL 101 is a straightforward guide to oil and an essential read for anyone coming to grips with where oil prices, the economy and society are headed. In OIL 101, Downey provides the facts one needs to understand oil, from its history and chemistry, to refining, finished products, storage, transportation, alternatives, and how prices are determined every day in global wholesale oil markets and how those markets are connected to prices at the pump.

Oil & Gas Company Analysis Upstream, Midstream and Downstream CreateSpace

A thorough introduction to environmental monitoring in the oil and gas industry Analytical Techniques in the Oil and Gas Industry for Environmental Monitoring examines the analytical side of the oil and gas industry as it also provides an

overall introduction to the industry. You'll discover how oil and natural gas are sourced, refined, and processed. You can learn about what's produced from oil and natural gas, and why evaluating these sourced resources is important. The book discusses the conventional analyses for oil and natural gas feeds, along with their limitations. It offers detailed descriptions of advanced analytical techniques that are commercially available, plus explanations of gas and oil industry equipment and instrumentation. You'll find technique descriptions supplemented with a list of references as well as with real-life application examples. With this book as a reference, you can prepare to apply specific analytical methods in your organization's lab environment. Analytical Techniques can also serve as your comprehensive resource on key techniques in the characterization of oil and gas samples, within both refinery and environmental contexts. Understand of the scope of oil and gas industry techniques available Consider the benefits and limitations of each available process Prepare for applying analytical techniques in your lab See real examples and a list of references for each technique Read descriptions of off-line analytics, as well as on-line and process applications As a chemist, engineer, instructor, or student, this book will also expand your awareness of the role these techniques have in environmental monitoring and environmental impact assessments.

Unconventional Oil and Gas Resources Handbook: Evaluation and Development is a must-have, helpful handbook that brings a wealth of information to engineers and geoscientists. Bridging between subsurface and production, the handbook provides engineers and geoscientists with effective methodology to better define resources and reservoirs. Better reservoir knowledge and innovative technologies are making unconventional resources economically possible, and multidisciplinary approaches in evaluating these resources are critical to successful development. Unconventional Oil and Gas Resources Handbook takes this approach, covering a wide range of topics for developing these resources including exploration, evaluation, drilling, completion, and production. Topics include theory, methodology, and case histories and will help to improve the understanding, integrated evaluation, and effective development of unconventional resources. Presents methods for a full development cycle of unconventional resources, from exploration through production Explores multidisciplinary integrations for evaluation and development of unconventional resources and covers a broad range of reservoir characterization methods and development scenarios Delivers balanced information with multiple contributors from both academia and industry Provides case histories involving geological analysis, geomechanical analysis, reservoir modeling, hydraulic fracturing treatment, microseismic monitoring, well performance and refracturing for development of unconventional reservoirs

Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrument

The Oil and Gas Industry boasts some of the highest income earning jobs of any industry in the world. Of the dozens of job categories in the Oil and Gas Industry, the majority have a higher income earning potential than their counterparts in other industries. Careers which are as diverse as accounting and Chemical engineering are readily available to those who knew where and how to look. Many are just unaware of where to look and how to land these jobs. Until now, the information about the various career opportunities in this industry has never been organized and condensed into such a concise book. If you are thinking about a Career in the Oil and Gas Industry, this is where you should start. In "Careers in the Oil & Gas Industry: A Guidebook of Practical Advice" Alfonso Colombano and Ryan Ray detail the ultra complex Oil and Gas industry. Beginning with a brief summary of the Upstream, Midstream, and Downstream markets, they paint a picture of the industry using a broad brush. After that, the remaining chapters are characterized by high quality synopses of the multiple Career opportunities available in each sector, and the sort of personality preferences that tend to flourish more naturally in each. Building on that, Alfonso and Ryan detail the ideal career paths and other means of securing these jobs.

Use big data analytics to efficiently drive oil and gas exploration and production Harness Oil and Gas Big Data with Analytics provides a complete view of big data and analytics techniques as they are applied to the oil and gas industry. Including a compendium of specific case studies, the book underscores the acute need for optimization in the oil and gas exploration and production stages and shows how data analytics can provide such optimization. This spans exploration, development, production and rejuvenation of oil and gas assets. The book serves as a guide for fully leveraging data, statistical, and quantitative analysis, exploratory and predictive modeling, and fact-based management to drive decision making in oil and gas operations. This comprehensive resource delves into the three major issues that face the oil and gas industry during the exploration and production stages: Data management, including storing massive quantities of data in a manner conducive to analysis and effectively retrieving, backing up, and purging data Quantification of uncertainty, including a look at the statistical and data analytics methods for making predictions and determining the certainty of those predictions Risk assessment, including predictive analysis of the likelihood that known risks are realized and how to properly deal with unknown risks Covering the major issues facing the oil and gas industry in the exploration and production stages, Harness Big Data with Analytics reveals how to model big data to realize efficiencies and business benefits.

The challenge of connecting employers and educators to collaboratively plan for training future workers is an enduring one-particularly for jobs that are rapidly changing because of technological advancements. This report addresses this challenge as it pertains to employers and educators in the oil and natural gas industry located in and around the Utica and Marcellus shales. The combination of horizontal drilling and hydraulic fracturing to tap natural gas has resulted in the Utica and Marcellus shales becoming major sources of natural gas supply within the United States and are predicted to bring significant long-term economic benefits to the tristate region of Ohio, Pennsylvania, and West Virginia. To inform policy decisions on how best to expand and sustain the pool of workers with knowledge and skills needed by oil and natural gas employers in the tristate region, this report summarizes the findings from surveys administered to the region's oil and gas employers and education providers. We found that basic cross-cutting skills-such as time management, speaking, and writing-and knowledge of business operations (including sales and marketing) are reported by employers as essential for their workers to competently perform in high-priority occupations. However, these basic skills tend not to be emphasized in local postsecondary degree programs that support the oil and natural gas industry. We also found a clear lack of collaboration and partnerships between oil and gas companies and education providers across the region, with colleges and employers each pointing to the other's unwillingness as the source for lack of partnerships or collaboration.

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.

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.

Oil and gas operations have some of the most unique accounting issues found in any industry. Oil & Gas Accounting delves into acquisition, exploration, development, and production activities, covering many industry-specific accounting issues. Topics covered include the successful efforts method, full cost method, reserve reporting, the unit of production method, severance taxes, take-or-pay arrangements, transfers of mineral interests, and joint interest accounting, as well as industry-specific controls that should be installed. In short, this book is the essential oil and gas desk reference for the accountant.

A data-driven assessment of what enables some companies to outperform over the long term in spite of comparable constraints analyzes the practices of thousands of high- and low-performing companies over a 45-year period to reveal unique thinking habits and counterintuitive strategies.

Apply machine and deep learning to solve some of the challenges in the oil and gas industry. The book begins with a brief discussion of the oil and gas exploration and production life cycle in the context of data flow through the different stages of industry operations. This leads to a survey of some interesting problems, which are good candidates for applying machine and deep learning approaches. The initial chapters provide a primer on the Python programming language used for implementing the algorithms; this is followed by an overview of supervised and unsupervised machine learning concepts. The authors provide industry examples using open source data sets along with practical explanations of the algorithms, without diving too deep into the theoretical aspects of the algorithms employed. Machine Learning in the Oil and Gas Industry covers problems encompassing diverse industry topics, including geophysics (seismic interpretation), geological modeling, reservoir engineering, and production engineering. Throughout the book, the emphasis is on providing a practical approach with step-by-step explanations and code examples for implementing machine and deep learning algorithms for solving real-life problems in the oil and gas industry. What You Will Learn Understanding the end-to-end industry life cycle and flow of data in the industrial operations of the oil and gas industry Get the basic concepts of computer programming and machine and deep learning required for implementing the algorithms used Study interesting industry problems that are good candidates for being solved by machine and deep learning Discover the practical considerations and challenges for executing machine and deep learning projects in the oil and gas industry Who This Book Is For Professionals in the oil and gas industry who can benefit from a practical understanding of the machine and deep learning approach to solving real-life problems.

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.

[Copyright: ea6b0640340987ca673a20cc04689eda](#)