

Petroleum Economics And Risk Analysis

Petroleum Economics and Risk Analysis: A Practical Guide to E&P Investment Decision-Making, Volume 69, is a practical guide to the economic evaluation, risk evaluation and decision analysis of oil and gas projects through all stages of the asset lifecycle, from exploration to late life opportunities. This book will help readers understand and make decisions with regard to petroleum investment, portfolio analysis, discounting, profitability indicators, decision tree analysis, reserves accounting, exploration and production (E&P) project evaluation, and E&P asset evaluation. Includes case studies and full color illustrations for practical application Arranged to reflect lifecycle structure, from exploration through to decommissioning Demonstrates industry-standard decision-making techniques as applied to petroleum investments in the oil and gas industry

Seismic hazard and risk analyses underpin the loadings prescribed by engineering design codes, the decisions by asset owners to retrofit structures, the pricing of insurance policies, and many other activities. This is a comprehensive overview of the principles and procedures behind seismic hazard and risk analysis. It enables readers to understand best practices and future research directions. Early chapters cover the essential elements and concepts of seismic hazard and risk analysis, while later chapters shift focus to more advanced topics. Each chapter includes worked examples and problem sets for which full solutions are provided online. Appendices provide relevant background in probability and statistics. Computer codes are also available online to help replicate specific calculations and demonstrate the implementation of various methods. This is a valuable reference for upper level students and practitioners in civil engineering, and earth scientists interested in engineering seismology.

Daniel Johnston covers everything including historical development of contracts, terminology of accounting and negotiations, threshold field size analysis, arithmetic behind contract terms, and more. Contents Petroleum fiscal systems Concessionary systems Production-sharing contracts Risk service contracts Threshold field size analysis Global market for exploration acreage Production-sharing contract outline Accounting principles Double taxation Commentary Appendices Glossary.

A Worked Examples Approach

Financial Management and Risk Analysis Strategies for Business Sustainability

A Practical Guide to E&P Investment Decision-Making

International Petroleum Fiscal Systems and Production Sharing Contracts

Executive MBA Oil & Gas Management in 15 Days

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best, most comprehensive source of petroleum engineering information available.

Deals with international exploration economics and petroleum fiscal system analysis and design and contains the most up-to-date information and discussions in the industry on the subject.

Dynamic Risk Analysis in the Chemical and Petroleum Industry focuses on bridging the gap between research and industry by responding to the following questions: What are the most relevant developments of risk analysis? How can these studies help industry in the prevention of major accidents? Paltrinieri and Khan provide support for professionals who plan to improve risk analysis by introducing innovative techniques and exploiting the potential of data share and process technologies. This concrete reference within an ever-growing variety of innovations will be most helpful to process safety managers, HSE managers, safety engineers and safety engineering students. This book is divided into four parts. The Introduction provides an overview of the state-of-the-art risk analysis methods and the most up-to-date popular definitions of accident scenarios. The second section on Dynamic Risk Analysis shows the dynamic evolution of risk analysis and covers Hazard Identification, Frequency Analysis, Consequence Analysis and Establishing the Risk Picture. The third section on Interaction with Parallel Disciplines illustrates the interaction between risk analysis and other disciplines from parallel fields, such as the nuclear, the economic and the financial sectors. The final section on Dynamic Risk Management addresses risk management, which may dynamically learn from itself and improve in a spiral process leading to a resilient system. Helps dynamic analysis and management of risk in chemical and process industry Provides industry examples and techniques to assist you with risk-based decision making Addresses also the human, economic and reputational aspects composing the overall risk picture

The Official History of North Sea Oil and Gas

Modern Petroleum Economics

Inverse and Risking Methods in Hydrocarbon Exploration

Standard Handbook of Petroleum and Natural Gas Engineering: Sexual Attraction

The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth explorat

Elements of Petroleum Geology, Fourth Edition is a useful primer for geophysicists, geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area. It is also an excellent introductory text for a university course in petroleum geoscience. This updated edition includes new case studies on non-conventional exploration, including tight oil and shale gas exploration, as well as coverage of the impacts on petroleum geology on the environment. Sections on shale reservoirs, flow units and containers, IOR and EOR, giant petroleum provinces, halo reservoirs, and resource estimation methods are also expanded. Written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world Covers information pertinent to everyone working in the oil and gas industry, especially geophysicists, geologists and petroleum reservoir engineers Fully revised with updated references and expanded coverage of topics and new case studies

In light of the Sustainable Development Goals, sustainability is a factor to consider for understanding the changes that are coming in the business world and in different areas of management. Companies must reorient their business objectives towards sustainable and responsible production for the environment and society. In this context of change, it is important to open the debate and obtain more thorough knowledge on how companies should change their leaderships strategies and carry out their financial planning, as well as analyze the risk of their clients and innovative projects that respect the environment. Financial Management and Risk Analysis Strategies for Business Sustainability proposes a series of practical and theoretical perspectives on how the business world has to evolve to adapt to the new situation the world has reached due to undeniable climate change forcing businesses to redefine their productive processes and internal organization. Topics highlighted include financial management procedures, corporate social responsibility, risk analysis, financial literacy, and innovation in sustainability and sustainable development. This book is a useful reference source for managers, executives, engineers, business professionals, financial analysts, researchers, academicians, and students in the areas of management, human resources, accounting and finance, taxation, environmental economics, and some engineering areas.

Vol. I: The Growing Dominance of the State

Upstream Petroleum Fiscal and Valuation Modeling in Excel

Oil and Gas Property Valuation and Economics

Introduction to Petroleum Economics

An AAPG Continuing Education Program, Presented to the Lafayette Geological Society, Lafayette, Louisiana, November 30 -- December 1, 1981

This book summarizes the core modules of an MBA Oil and Gas degree and more. It covers such modules as oil and gas law, oil and gas supply chain management, oil and gas risks, oil and gas insurance, hydrocarbon accounting and fiscal systems management, petroleum economics, refining economics and processing, oil and gas international markets, energy transition strategy and HRM, oil and gas operations and management, capital intensity of the oil and gas industry, strategic development, knowledge creation and competitive advantage, management theories and practice, and strategic leadership. References and further readings are also provided to aid the reader. The reader will find this book very exciting and informative. The oil and gas law module, provides detailed information on the development of applicable energy laws in Nigeria starting from colonial times, the establishment of NNPC, Nigeria's national oil company, the Petroleum Act, the Deep Offshore and Inland Basin Production Sharing Contract Act and the emerging Petroleum Industry Governance Act and other laws including environmental laws and the Offshore Gulf of Guinea international law on energy and marine resources exploitation. Of particular importance are Nigeria's Petroleum Policy, Petroleum Fiscal Policy and the Natural Gas Policy. The supply chain module highlights the importance technological innovation and collaborations for cost reduction and to enhancement of supply chain management. Risks are extensively discussed in the oil and gas risk module, with a special emphasis on exploration/geological risks that could lead to dry holes and financial loss. Also, other risks include operational risks, environmental, such as oil spills and global warming/climate change, economic risk and price volatility, and political risks are addressed. Of great significance is Tom Therramus' WTI Price Volatility historical graph which predicts price volatility based on past price instability with remarkable certainty. These risks are mitigated with the appropriate insurance as discussed in the insurance module. Insurance against offshore risks are of special importance. The capital intensity module draws the attention of the reader to the fact that this is one of the most capital intensive industries in the world, yet it yields very strong financial returns on investments, particularly now, when oil majors are moving increasingly offshore, and discovering huge finds, while non-conventional plays are altering the global oil and gas landscape. The international markets module focuses on the three global markets of London, New York and Dubai, as well as the spot and term markets, and the unique natural gas market, particularly that of LNG, where long term contracts are the norm, as exemplified by Nigeria's LNG. Special attention has been given to the oil and gas accounting and fiscal systems management module as well as the petroleum economics and investment decisions module, detailing Nigeria's hydrocarbon accounting systems which have been explained from legal and fiscal management perspectives. Several investment decision analysis methods are discussed in detail in the petroleum economics module including cash flow, present value, Discounted Profit-to-Investment Ratio or Profitability Index (PI), NPV, NCF, DCF, EMV, IRR, Decision trees etc. An energy transition strategy and HRM module is provided and it deals the strategic investments that big oil is making and will be making in order to guarantee a future for oil and gas, as they invest in offshore wind, biofuel, mega solar and hydro projects, alongside oil and gas. The role of capital discipline, low break-even price, technological innovation and new talents acquisition are emphasized in an overall energy transition strategy.

Volume I, General Engineering, includes chapters on mathematics, fluid properties (fluid sampling techniques; properties and correlations of oil, gas, condensate, and water; hydrocarbon phase behavior and phase diagrams for hydrocarbon systems); the phasebehavior of water/hydrocarbon systems; and the properties of waxes, asphaltenes, and crude oil emulsions), rock properties (bulk rock properties, permeability, relative permeability, and capillary pressure), the economic and regulatory environment, and the role of fossil energy in the 21st century energy mix (from SPE Website).

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.

Decision Analysis for Petroleum Exploration

An Overview of the Analysis of Profitability and Risks of Exploratory and Development Well Drilling Prospects

Analysis and Valuation, Risk Management, and the Future of Energy

An Overview of the Analysis of Profitability and Risks of Exploratory and Development Well Drilling Prospects : Course Notes

International Exploration Economics, Risk, and Contract Analysis

Introduction to Petroleum Economics is about the process of gathering project data, calculating whether a project should proceed and delivering recommendations. It discusses the science of petroleum economics, starting from square-one, the tools of the trade that petroleum

economists use, day in and day out, and also its application. Along the way the author relates some helpful and informative anecdotes based on his almost twenty-year career as a petroleum economist. Vital for all oil professionals as well as students, Introduction to Petroleum Economics unravels the decision-making behind why a petroleum project moves ahead or ends

Written by the leading expert in UK petroleum economics, this study provides a new, unique, in-depth analysis of the development of British policies towards the North Sea oil and gas industry from the early 1960s to the early 1980s. Drawing on full access to the UK Government's relevant archives, Alex Kemp examines the thinking behind the initial legislation in 1964, the early licensing arrangements and the events leading up to the boundary delimitation agreements with Norway and other adjacent North Sea countries. He explains the debate in the later 1960s about the appropriate role of the state in the exploitation of the gas and oil resources, the prolonged negotiations resulting in the early long-term gas contracts, and the continuing debate on the role of the state following the large oil discoveries in the first half of the 1970s resulting in the formation of BNOG (British National Oil Corporation). The debate leading up to the introduction of, and subsequent increase in, the Petroleum Revenue Tax is fully explained as is the introduction of Supplementary Petroleum Duty. The author also outlines the debates around interventionist depletion policies and on how the oil revenues should best be utilised. The Official History of North Sea Oil and Gas will be of much interest to students of North Sea oil and gas, energy economics, business history, and British politics, as well as to petroleum professionals and policymakers.

Petroleum Economics and Risk AnalysisPetroleum Economics and Risk AnalysisA Practical Guide to E&P Investment Decision-MakingElsevier

Project Finance for the International Petroleum Industry

An Introduction to Exploration Economics

Evolution and Interaction with Parallel Disciplines in the Perspective of Industrial Application

Economics of Worldwide Petroleum Production

Petroleum Engineering Handbook

Hydrocarbon Accounting entails accounting for well production or field operations especially volumetric and contractual allocations, contract pricing and valuation, payment processing, revenue distribution, taxation and royalty payment. These data are captured by oil and gas firms across exploration, production and distribution operations. With reliable audited reporting, informed decisions can be made as far as production planning, asset management and financial management are concerned. It is not only mandatory, but also governed by the Petroleum Industry Act of 2021. This book addresses topics captured in the PIA; especially mandatory accurate hydrocarbon accounting. Topics include oil block acquisition, payables, receivables, joint venture accounting, tax oil, profit oil, operating income, depreciation, depreciation allowance, amortization, cost depletion, ringfencing, contractual systems such as pure service contracts, production sharing contract, risk service contracts, technical assistance agreements, oil mining lease, petroleum licensing rounds and joint ventures. It also covers gross oil production, cost recovery, royalty oil, contractor share, Home Government share, contractor profit, and income tax. Other topics are royalty payment, work commitment, cost recovery limits, participation agreement, operating agreement, memorandum of understanding, depletion calculation, cost depletion, concessionary deductions, commerciality requirement, profits and taxes, the economic rent theory, economic limit, reserve recognition accounting, reserves classifications, bonuses, rents, royalty trust, cost and full accounting, royalties, concessionary fiscal systems, chargeable profit, chargeable tax, assessable tax, disallowed deductions, adjust for profit and production splits as they affect exploration, drilling and production. While the hydrocarbon accountant performs their duties, the Petroleum Economist assist and enhance investment decision making by analyzing these and other factors including exploration and well drilling data, whether or not the development of an entire gas production project should proceed. Their inputs are critical in Production Sharing Contracts negotiations and oil and gas block (properties) purchase. They are inevitably involved in the evaluation and management of the operational, environmental, geological, technical, economic and related risks associated with different phases of oil and gas projects. Their work also includes the financial analysis of oil and gas production as well as the forecasting of cash flow, oil and gas development assessment, economic indicators, risk analysis and the analysis of the effects of taxation. Petroleum Economists advise company management on the economic viability and attractiveness of petroleum ventures and operations, as they have the knowledge and skills required to quantify all forms of uncertainties such as reservoir pattern, future oil and gas prices, development costs, host government take, assistance in the bonus payment determination, when the organization is bidding for oil and gas tracts or leases. Using profitability analysis, they prepare guidelines for the selection of the best alternative development options. They participate in oil and gas field development engineering design, field acquisition, methods of production that influence production rate, and ultimate recovery, including planned change in development. Also, they re-evaluate priorities in investment funds allocation by the company. Investment decision analysis methods discussed are PV, NCF, IRR, NPV, DROI, PI, SI, EMV, Decision Trees, Monte Carlo Simulations, amongst others. Three main investor questions are addressed such as "What is the cost of the proposed E&P venture?" "What are the absolute economic value and relative cost of the E & P venture?" "How profitable is the venture when compared to alternative available investment opportunities?"

Actions that will lead to success in acquiring or divesting oil and gas producing assets and the path to maximizing value and minimizing one's mistakes are presented in this volume. Necessary resources are noted emphasizing best practices in evaluations and negotiations.

Revised and updated to reflect major changes in the field, this second edition presents an integrated and balanced view of current attitudes and practices used in sound economic decision-making for engineering problems encountered in the oil industry. The volume contains many problem-solving examples demonstrating how economic analyses are applied to different facets of the oil industry. Discussion progresses from an introduction to the industry, through principles and techniques of engineering economics, to the application of economic methods to the oil industry. It provides information on the types of crude oils, their finished products and resources of natural gas, and also summarizes worldwide oil production and consumption data.

HYDROCARBON ACCOUNTING, PETROLEUM ECONOMICS AND INVESTMENT DECISIONS

Petroleum Exploration Economics and Risk Analysis

Economics of Petroleum Production: Profit and risk

The Acquisition & Divestiture of Petroleum Property

Construction Management and Design of Industrial Concrete and Steel Structures

This is a major rework of Paul Newendorp's 1975 best-seller, which became the standard reference in the field. This book is now structured as a handbook of over 330 important concepts in risk and economic decision analysis. As the title suggests, well over half the examples apply to petroleum exploration investment decisions. Perhaps the most important contribution is the inclusion of capital investment, project management, and operations decisions. Topics in the book represent a composite of evaluation practices and problem-solving approaches now commonly used in oil & gas and other capital-intensive industries. Several important and practical techniques were first published in the first edition. Decision analysis methodology emphasis here is on quantitative methods useful in capital investment decisions and decisions to acquire additional information. This will be of special interest to anyone involved in the evaluation of property acquisitions, geophysical surveys, prospect drilling, and field development decisions. This book is intended for petroleum geologists, operations planning analysts, and managers. This is not a first book in decision analysis. We presume the reader has a general familiarity with management, economics, decision analysis, and knowledge of the oil & gas industry. As a handbook we are focusing on what is most important and practical. Major topic areas include the decision analysis process, statistics (including Bayes' rule and easy equivalents), decision policy (including risk policy expressed as a utility function), popular economic metrics and concepts, project and enterprise modeling, decision tree analysis, Monte Carlo simulation, and various special topics. Value of information problems receive special attention. Over 270 figures and tables are included. Expected value (EV) concept is central throughout. Most often we assume a decision policy that maximizes EV. Most of the discussion presumes a business context and measuring outcome as net present value (NPV). We also describe approaches for multi-criteria decision making including HSE. Expected monetary value (EMV = EV NPV) is most examples. The EV calculation incorporates judgments about risks and uncertainties expressed as probabilities and probability distributions. EV is the cornerstone of formal, quantitative analysis for decisions under uncertainty. The key calculation methods are decision trees and Monte Carlo simulation. Small decision trees can be solved by hand, but the absolute value usually require a computer. Software supporting these methods is now widely available as Microsoft(r) Excel(r) spreadsheet add-ins and for other platforms. The material is organized into seven sections: Decision Analysis Process, Probability and Statistics, Decision Policy, Economic Matters, Modeling, Dect Decision Simulation. Throughout, real-world exploration examples are presented to illustrate the risk and decision analysis methods. This revised 3.0 edition features a larger page format, an updated and expanded bibliography, and an extensive glossary. We also offer additional material online, including extended discussions, software resources, and

Report "Original ISBN not available, alternate ISBN recorded Comments: ISBN 9780906522233 replaced with 9780906522240.

"This new reprint, a collaboration between SPE and the Society of Petroleum Evaluation Engineers (SPEE), combines the subjects of property and project evaluation, economics, and finance by offering a selection of papers that were presented in SPE publications and other forums over the past 30 years. The purpose of this volume is to provide important and informative papers from recent industry literature and to continue the documentation of oil and gas property evaluation advancements. Oil and Gas Property Valuation and Economics includes 30 papers on property and project valuation, risk analysis, international economics and fiscal regimes, and special focus topics. This CD-ROM contains 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

Hydrocarbon Exploration and Production

Petroleum Economics

An AAPG Continuing Education Program, Sponsored by the San Joaquin Geological Society, March 10-11, 1978, Bakersfield, California

A Compendium

Decision Analysis for Petroleum Exploration, 3, 0 Edition

Thought leaders and experts offer the most current information and insights into energy finance Energy Finance and Economics offers the most up-to-date information and compelling insights into the finance and economics of energy. With contributions from today's thought leaders who are experts in various areas of energy finance and economics, the book provides an overview of the energy industry and addresses issues concerning energy finance and economics. The book focuses on a range of topics including corporate finance relevant to the oil and gas industry as well as addressing issues of unconventional, renewable, and alternative energy. A timely compendium of information and insights centering on topics related to energy finance Written by Betty and Russell Simkins, two experts on the topic of the economics of energy Covers special issues related to energy finance such as hybrid cars, energy hedging, and other timely topics In one handy resource, the editors have collected the best-thinking on energy finance.

This new book is a study on how humans met, attracted to their opposite sex, presenting scientific basis of sexual attraction among humans. This book begins by elaborating on sexual arousal in humans, which is followed by a discussion on what is sexually desirable for a person. This discussion examines physical appearance of humans that contributes to sexual attraction. The two subsequent chapters are devoted to examining sexual behaviors, particularly the interesting topic of "love at first sight and the concept of love. This book then explains how attraction can lead to marriage, explaining how two persons sexually attracted to each other successfully prolong the attraction and have a lasting relationship. This book ends by explaining the responses of other people who believe their unattractive appearance is the cause of their dull social and sexual lives. This book will surely be of interest to anyone interested in exploring sexual attraction. Because this book is science-based, it is helpful as well to those in the field of psychology and counseling.

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.

Petroleum Economics and Risk Analysis

Elements of Petroleum Geology

Seismic Hazard and Risk Analysis

Dynamic Risk Analysis in the Chemical and Petroleum Industry

Energy Finance and Economics

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 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 distribution 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.

Decision Analysis for Petroleum Exploration By Paul D. Newendorp

A Guide to the Strategies, Processes and Tactics Used by Successful Companies

Economic Analysis of Oil and Gas Engineering Operations

An AAPG Continuing Education Program, March 10-11, 1978, Bakersfield, California

Petroleum Economics and Engineering

This book looks at how modern developments have enhanced the utility of basin analysis in hydrocarbon exploration. A major factor is modern computing power, which enables complex Monte Carlo-type calculations to be rapidly carried out; a second is the transfer of concepts from the economic arena to the theatre of hydrocarbon production, for example setting risking procedures to cope with data uncertainties. In addition now there are available powerful methods for handling the determination of parameters in the highly non-linear world of equations describing various facets of basin analysis. Th

Hydrocarbon Exploration and Production, Second Edition is a comprehensive and current introduction to the upstream industry, drawing together the many inter-disciplinary links within the industry. It presents all the major stages in the life of an oil or gas field, from gaining access to opportunity, through exploration, appraisal, development planning, production, and finally to decommissioning. It also explains the fiscal and commercial environment in which oil and gas field development takes place. The book is written for industry professionals who wish to be better informed about the basic technical and commercial methods, concepts and techniques used in the upstream oil and gas business. The authors are the founders of TRACS International, a company which has provided training and consultancy in Exploration and Production related issues for many clients world-wide since 1992. Clearly written in a concise and straightforward manner Features detailed technical illustrations to maximize learning Presents major advances in the industry, including technical methods for field evaluation and development and techniques used for managing risk within the business Developed from TRACS International course materials, discussions with clients, and material available in the public domain

Risk Analysis and Management of Petroleum Exploration Ventures