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Petroleum Economics Pdf ***2022-09-26***

ROCCO JIMENA

Hydrocarbon Exploration and Production
Oil & Gas Consultants International, Incorporated

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.

Economics of Worldwide Petroleum

Production Lifting the Resource Curse Fundamentals of Petroleum Refining presents the fundamentals of thermodynamics and kinetics, and it explains the scientific background essential for understanding refinery operations. The text also provides a detailed introduction to refinery engineering topics, ranging from the basic principles and unit operations to overall refinery economics. The book covers important topics, such as clean fuels, gasification, biofuels, and environmental impact of refining, which are not commonly discussed in most refinery textbooks. Throughout the source, problem sets and examples are given to help the reader practice and apply the fundamental principles of refining. Chapters 1-10 can be used as core materials for teaching undergraduate courses. The first two chapters present an introduction to the petroleum refining industry and then focus on feedstocks and products. Thermophysical properties of crude oils and petroleum fractions, including processes of atmospheric and vacuum distillations, are discussed in Chapters 3 and 4. Conversion processes, product blending, and alkylation are covered in chapters 5-10. The remaining chapters discuss hydrogen production, clean fuel production, refining economics and safety, acid gas treatment and removal, and methods for environmental and effluent treatments. This source can serve both professionals and students (on undergraduate and graduate levels) of Chemical and Petroleum Engineering,

Chemistry, and Chemical Technology. Beginners in the engineering field, specifically in the oil and gas industry, may also find this book invaluable. - Provides balanced coverage of fundamental and operational topics - Includes spreadsheets and process simulators for showing trends and simulation case studies - Relates processing to planning and management to give an integrated picture of refining

Petroleum Production Systems Springer

In 20th century society, oil has played a fundamental role not only from the economic point of view, but also from the point of view of the political relationships established between major Western countries and oil-producing countries. A survey into oil history, its market dynamics and price evolution, is essential for a deeper understanding of modern industry and world economy, as world development depends on oil supplies, prices, and its political accessibility. Oil Economics and Policy follows the historical development of the oil industry, and inevitably also covers many aspects of energy resource economy. In so doing, it pays particular attention to one aspect, namely, the fixing of oil prices. This is mainly in order to attempt to understand whether, and by how much, the structural transformations that the oil industry has undergone during the various phases of its existence - and the various market structures deriving from them - have influenced the dynamics of oil prices. Alberto Clô is Professor of Industrial Economics at the University of Bologna.

Minister of Industry and Trade during Lamberto Dini's government (January 1995-May 1996), he has been a member both of national and international scientific boards and of ministerial committees. He is author of numerous writings on industrial and energy economies and editor-in-chief of the journal Energia.

Oil Economics and Policy Springer

The Definitive Guide to Petroleum Production Systems–Now Fully Updated With the Industry’s Most Valuable New Techniques Petroleum Production Systems, Second Edition, is the comprehensive source for clear and fundamental methods for about modern petroleum production engineering practice. Written by four leading experts, it thoroughly introduces modern principles of petroleum production systems design and operation, fully considering the combined behavior of reservoirs, surface equipment, pipeline systems, and storage facilities. Long considered the definitive text for production engineers, this edition adds extensive new coverage of hydraulic fracturing, with emphasis on well productivity optimization. It presents new chapters on horizontal wells and well performance evaluation, including production data analysis and sand management. This edition features A structured approach spanning classical production engineering, well testing, production logging, artificial lift, and matrix and hydraulic fracture stimulation Revisions throughout to reflect recent innovations and extensive feedback from

both students and colleagues Detailed coverage of modern best practices and their rationales Unconventional oil and gas well design Many new examples and problems Detailed data sets for three characteristic reservoir types: an undersaturated oil reservoir, a saturated oil reservoir, and a gas reservoir

Political and Investment Risk in the International Oil and Gas Industry EDP Sciences

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.

Energy Economics Houghton Mifflin

Harcourt
With frequent discoveries of energy resources in remote and undeveloped areas, the importance of transnational oil and gas pipelines is set to grow ever more prominent. This study dissects the diplomacy and bargaining power of the transit country and the shifting economic relations involved in cross-border energy transportation.
Petroleum Refinery Process Economics
Createspace Independent Publishing Platform
Maples presents an organized look at yield data and properties of products from refinery processes, how to use this information in performing various process economics studies, and discusses operating and capital costs for economic evaluation of both single processes and complete refineries. Yield correlations are presented for all of the important commercially-established petroleum refinery processes, each accompanied by operating requirements and capital cost of a typical unit. Here the user has all of the information required to perform a preliminary economic evaluation. For each process yield correlation a simplified process flow diagram and brief process description is given. Contents: Correlation methodology Crude oils, hydrocarbons, and refinery products Refinary processing overview Energy resources and transportation fuels The environment and the refinery Crude oil and residual oil processing Solvent deasphalting Visbreaking and aquaconversion Delayed coking Fluid

coking/flexicoking Heavy distillate processing Fluid catalylic and heavy oil cracking Hydrocracking Hydrotreating Light distillate processing Naphtha desulfurization Catalytic reforming Light hydrocarbon processing Isomerization Alkylation Catalytic polymerization and dehydration Oxygenates Treating and other auxiliary processes Aromatics extraction Hydrogen manufacture Sour water stripping Sweetening Acid gas removal Sulfur recovery Tail gas cleanup Water treatment and waste disposal Blending Process economics Economics.

Fundamentals of Petroleum Refining

Editions TECHNIP

This book provides an updated and expanded overview of basic concepts of energy economics and explains how simple economic tools can be used to analyse contemporary energy issues in the light of recent developments, such as the Paris Agreement, the UN Sustainable Development Goals and new technological developments in the production and use of energy. The new edition is divided into four parts covering concepts, issues, markets, and governance. Although the content has been thoroughly revised and rationalised to reflect the current state of knowledge, it retains the main features of the first edition, namely accessibility, research-informed presentation, and extensive use of charts, tables and worked examples. This easily accessible reference book allows readers to gain the skills required to understand and analyse complex energy issues from an economic perspective. It is a valuable

resource for students and researchers in the field of energy economics, as well as interested readers with an interdisciplinary background.

The Oil Curse John Wiley & Sons

This book examines the ways that oil economics will impact the rapidly changing global economy, and the oil industry itself, over the coming decades. The predictions of peak oil were both right and wrong. Oil production has been constrained in relation to demand for the past decade, with a resulting four-fold increase in the oil price slowing the entire global economy. High oil prices have encouraged a small increase in oil production, and mostly from the short-lived “fracking revolution,” but enough to be able to claim that “peak oil” was a false prophecy. The high oil price has also engendered massive exploration investments, but remaining hydrocarbon stocks generally offer poor returns in energy (the energy return on investment or EROI) and financial terms, and no longer replace the reserves being produced. As a result, the economically powerful oil companies are under great pressure, both financially and politically, as oil remains the backbone of the global economy./div”Development scenarios and political pressure for growth as a means of solving economic woes both require more net energy, which is the amount of energy available after energy (and thus financial) inputs required for new sources to come on line are deducted. In today’s economy, more energy usually means more oil. Although a barrel of oil from any source may look

the same, “tight oil” and oil from tar sands require much higher prices to be profitable for the producer; these expensive sources have very different economic implications from the conventional oil supplies that underpinned economic growth for most of the 20th century. The role of oil in the global economy is not easily changed. Since currently installed infrastructure assumes oil, a change implies more than just substitution of an energy source. The speed with which such basic structural changes can be made is also constrained, and ultimately themselves dependent on fossil fuel inputs. It remains unclear how this scenario will evolve, and that uncertainty adds additional economic pressure to the investment decisions that must be made. “Drill baby drill” and new pipeline projects may be attractive politically, but projections of economic and associated oil production growth based on past performance are clearly untenable.

Introduction to Petroleum Economics

Routledge

For four decades, Petroleum Refining has guided thousands of readers toward a reliable understanding of the field, and through the years has become the standard text in many schools and universities around the world offering petroleum refining classes, for self-study, training, and as a reference for industry professionals. The sixth edition of this perennial bestseller continues in the tradition set by Jim Gary as the most modern and authoritative guide in the field. Updated and expanded to reflect

new technologies, methods, and topics, the book includes new discussion on the business and economics of refining, cost estimation and complexity, crude origins and properties, fuel specifications, and updates on technology, process units, and catalysts. The first half of the book is written for a general audience to introduce the primary economic and market characteristics of the industry and to describe the inputs and outputs of refining. Most of this material is new to this edition and can be read independently or in parallel with the rest of the text. In the second half of the book, a technical review of the main process units of a refinery is provided, beginning with distillation and covering each of the primary conversion and treatment processes. Much of this material was reorganized, updated, and rewritten with greater emphasis on reaction chemistry and the role of catalysis in applications. Petroleum Refining: Technology, Economics, and Markets is a book written for users, the practitioners of refining, and all those who want to learn more about the field.

The International Political Economy of Oil and Gas John Wiley & Sons

Although host governments and investors may share one common objective - the desire for projects to generate high levels off revenue - their other goals are not entirely aligned. Host governments aim to maximize rent for their country over time, while achieving other development and socioeconomic objectives. Investors aim to ensure that the return on investment is consistent

with the risk associated with the project, and with their corporations' strategic objectives. To reconcile these often conflicting objectives, more and more countries rely on transparent institutional arrangements and flexible, nuetral fiscal regimes. This paper examines the key elements of the legal and fiscal frameworks utilized in the petroleum sector and aims to outline desirable features that should be considered in the design of fiscal policy with the objective of optimizing the host government's benefits, taking into account the effect this would have on the private sector's investment.

Energy Finance and Economics Gulf Professional Publishing

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.

Upstream Petroleum Fiscal and Valuation Modeling in Excel John Wiley & Sons

Beneath Venezuelan soil lies an ocean of crude—the world’s largest reserves—an oil patch that shaped the nature of the global energy business. Unfortunately, a

dysfunctional anti-American, leftist government controls this vast resource and has used its wealth to foster voter support, ultimately wreaking economic havoc. Crude Nation reveals the ways in which this mismanagement has led to Venezuela's economic ruin and turned the country into a cautionary tale for the world. Raúl Gallegos, a former Caracas-based oil correspondent, paints a picture both vivid and analytical of the country's economic decline, the government's foolhardy economic policies, and the wrecked lives of Venezuelans. Without transparency, the Venezuelan government uses oil money to subsidize life for its citizens in myriad unsustainable ways, while regulating nearly every aspect of day-to-day existence in Venezuela. This has created a paradox in which citizens can fill up the tanks of their SUVs for less than one American dollar while simultaneously enduring nationwide shortages of staples such as milk, sugar, and toilet paper. Gallegos's insightful analysis shows how mismanagement has ruined Venezuela again and again over the past century and lays out how Venezuelans can begin to fix their country, a nation that can play an important role in the global energy industry. This paperback edition features a new introduction by the author.

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production

Springer Science & Business Media

Volume 1 presents the mathematics and general engineering and science of petroleum engineering. It also examines

the auxiliary equipment and provides coverage of all aspects of drilling and well completion.

Oil and Gas in Trinidad and Tobago

Prentice Hall

This title is part of UC Press's Voices Revived program, which commemorates University of California Press’s mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1956.

Petroleum Economics and Engineering

Elsevier

The Revenue Watch program and the Initiative for Policy Dialogue promote transparency and civic participation in natural resource policymaking. Journalists know how hard it is to report on government management of oil, gas, and other natural resource revenues. Governments and industry are seldom forthcoming. And reporters themselves usually lack the background in economics, engineering, geology, and corporate finance helpful to understanding the energy industry and the effects of resource wealth. This book attempts to redress the balance with practical information in easy to understand language. Chapters include Understanding the Resource Curse, A Primer on Oil, Oil Companies and the International Oil Market, the ABCs of Petroleum Contracts, and the Environmental, Social, and Human

Rights Impacts of Oil Development. Tip sheets inform reporters about stories to pursue and questions to ask.

The Economics of Oil Potomac Books 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 Economics of Oil and Gas PennWell Books
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.

Covering Oil Routledge

Can "green petroleum" reverse global warming and bring down high gasoline prices? Written in non-technical language for the layperson, this book investigates and details how the oil and gas industry can "go green" with new processes and technologies, thus bringing the world's most important industry closer to environmental and economic sustainability. This book unravels the mysteries of the current energy crisis and argues that solutions to global warming will come only from the development of new technologies. Discussed here are the reasons why petroleum operations, as they are now, are not sustainable; how each practice treads an inherently implosive path; and how each spells irreversible damage to the planet's ecosystem. Fossil fuel consumption is not the culprit; rather, the practices involved, from exploration to refining and processing, are responsible for the current damage to the environment.

Handbook of Petroleum Processing John Wiley & Sons

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.