

Heriot Watt University Petroleum Economics

Many papers concerning exploration and transportation of arctic oil and gas.

Enhanced-Oil Recovery (EOR) evaluations focused on asset acquisition or rejuvenation involve a combination of complex decisions, using different data sources. EOR projects have been traditionally associated with high CAPEX and OPEX, as well as high financial risk, which tend to limit the number of EOR projects launched. In this book, the authors propose workflows for EOR evaluations that account for different volumes and quality of information. This flexible workflow has been successfully applied to oil property evaluations and EOR feasibility studies in many oil reservoirs. The methodology associated with the workflow relies on traditional (look-up tables, XY correlations, etc.) and more advanced (data mining for analog reservoir search and geology indicators) screening methods, emphasizing identification of analogues to support decision making. The screening phase is combined with analytical or simplified numerical simulations to estimate full-field performance by using reservoir data-driven segmentation procedures. Case Studies from Asia, Canada, Mexico, South America and the United States Assets evaluated include reservoir types ranging from oil sands to condensate reservoirs. Different stages of development and information availability are discussed

The superior goal of the gebo research association was making important contributions for the future reliable drilling under the existing “hot-hard-rock” conditions in Niedersachsen and their development to the geothermal drillings with sustainable geological subsurface heat exchangers. This goal should be achieved due to the solid research and innovative technology approaches in their combination within one concept for pioneering methods in deep geothermal drillings in hard rock, to be more exact - in interdisciplinary cooperation on engineers and scientists - in cooperation between industry and University, researchers and users Gebo research association comprised scientists and technicians of different research institutions and universities who are working in 33 projects. The individual projects were assigned to one of the 4 main research fields or focus areas. Gebo research association started its activities with 7 project partners participating: - Technische Universität Braunschweig (TUBS) - Technische Universität Clausthal (TUC) - Gottfried Wilhelm Leibniz Universität Hannover (LUH) - Georg-August-Universität Göttingen (UGOE) - Leibniz-Institut für Angewandte Geophysik (LIAG) - Bundesanstalt für Geowissenschaften und Rohstoffe (BGR) - Energie-Forschungszentrum Niedersachsen (EFZN) Baker Hughes, an industrial partner, participated in the association and supplies it with its experience and additional funds.

Routledge Handbook of Energy in Asia

Sessional Papers

Whitaker's Books in Print

The Journal of Canadian Petroleum Technology

Sexual Attraction

Upstream Petroleum Fiscal and Valuation Modeling in Excel

Sexual Attraction is a very interesting and creative study on how humans get 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.

The Routledge Handbook of Energy in Asia presents a comprehensive review of the unprecedented growth of Asian energy over the past quarter of a century. It provides insightful analysis into variation across the continent, whilst highlighting areas of cross-learning and regional cooperation between the developed and developing countries of Asia. Prepared by a team of leading international experts, this book not only captures the East Asian domination, particularly that of China, but also highlights the growing influence of South Asia and the ASEAN. Organised into four parts, the sections include: the demand for energy in the region and its main drivers at the sector level; developments in energy supply, including fossil fuels and renewable energy sources; energy policies and issues such as sector reform and climate change; the transition to a low carbon pathway. This handbook offers a complete picture of Asian energy, covering supply and demand, as well as contemporary challenges in the sector. As such, it is a valuable resource for students and scholars of energy policy, Environmental Studies, and Asian Studies.

First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil, gas and marine industries.

New Scientist

Petroleum Engineering and Technology Schools

A Complete Guide to Professional, Vocational and Academic Qualifications in the United Kingdom

Energy World

Technology, Incentives, Behavior

ECKM 2015

The social and economic systems of any country are influenced by a range of factors including income and education. As such, it is vital to examine how these factors are creating opportunities to improve both the economy and the lives of people within these countries. Socio-Economic Development: Concepts, Methodologies, Tools, and Applications provides a critical look at the process of social and economic transformation based on environmental and cultural factors including income, skills development, employment, and education. Highlighting a range of topics such as economics, social change, and e-governance, this multi-volume book is designed for policymakers, practitioners, city-development planners, academicians, government officials, and graduate-level students interested in emerging perspectives on socio-economic development.

Now in its 47th edition, British Qualifications 2017 is the definitive one-volume guide to every qualification on offer in the United Kingdom. With an equal focus on vocational studies, this essential guide has full details of all institutions and organizations involved in the provision of further and higher education and is an essential reference source for careers advisors, students and employers. It also includes a comprehensive and up-to-date description of the structure of further and higher education in the UK. The book includes information on awards provided by over 350 professional institutions and accrediting bodies, details of academic universities and colleges and a full description of the current framework of academic and vocational education. It is compiled and checked annually to ensure accuracy of information.

Get the latest on rapidly evolving global electricity markets direct from the scholars and thought leaders who are shaping reform. In this volume, dozens of world-class experts from diverse regions provide a comprehensive assessment of the relevant issues in today's electricity markets. Amid a seething backdrop of rising energy prices, concerns about environmental degradation, and the introduction of distributed sources and smart grids, increasingly stringent demands are being placed on the electric power sector to provide a more reliable, efficient delivery infrastructure, and more rational, cost-reflective prices. This book maps out the electric industry's new paradigms, challenges and approaches, providing invaluable global perspective on this host of new and pressing issues being investigated by research institutions worldwide. Companies engaged in the power sector's extensive value chain including utilities, generation, transmission & distribution companies, retailers, suppliers, regulators, market designers, and the investment & financial rating community will benefit from gaining a more nuanced understanding of the impacts of key market design and restructuring choices. How can problems be avoided? Why do some restructured markets appear to function better than others? Which technological implementations represent the best investments? Which regulatory mechanisms will best support these new technologies? What lessons can be learned from experiences in Norway, Australia, Texas, or the U.K.? These questions and many more are undertaken by the brightest minds in the industry in this one comprehensive, cutting-edge resource. Features a unique global perspective from more than 40 recognized experts and scholars around the world, offering opportunities to compare and contrast a wide range of market structures Analyzes how the implementation of existing and developing market designs impacts real-world issues such as pricing and reliability Explains the latest thinking on timely issues such as current market reform proposals, restructuring, liberalization, privatization, capacity and energy markets, distributed and renewable energy integration, competitive generation and retail markets, and disaggregated vs. vertically integrated systems

Economic Impacts of CO2 Enhanced Oil Recovery for Scotland

The Economist

Hydrocarbon Exploration and Production

Of the Third International Conference on Port and Ocean Engineering Under Arctic Conditions, Held in Fairbanks, Alaska, University of Alaska, 11-15 August 1975

Economic Geology of Natural Gas Hydrate

A Practical Guide to E&P Investment Decision-Making

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

An authoritative reference for financial professionals features coverage of key areas ranging from auditing and banking to insurance and investments, in a volume that includes checklists, biographies, summaries of key works, and quotations.

The complexity of carbon reduction and economic sustainability is significantly complicated by competing aspects of socioeconomic practices as well as legislative, regulatory, and scientific requirements and protocols. An easy to read and understand guide, Sioshansi, along with an international group of contributors, moves through the maze of carbon reduction methods and technologies, providing steps and insights to meet carbon reduction requirements and maintaining the health and welfare of the firm. The book's three part treatment is based on a clear and rigorous exposition of a wide range of options to reduce the carbon footprint Part 1 of the book, Challenge of Sustainability, examines the fundamental drivers of energy demand – economic growth, the need for basic energy services, and the interdependence of economic, political, environmental, social, equity, legacy and policy issues. Part 2 of the book, Technological Solutions, examines how energy can be used to support basic energy service needs of homes, commercial and industrial facilities and for other applications. Part 3 of the book, case studies, covers a number of innovative projects, initiatives, concepts or self-imposed targets in different parts of the world with the aim of significantly reducing energy use and carbon footprint of a company, a community, a city or an entire country. There was a widespread recognition among environmental engineers and energy economist of the importance of carbon reduction while sustaining the firm's economic growth. The only book to bring together both subjects into one easy to understand reference, Carbon Reduction and Economic Sustainability not only clearly explains which option has the lowest energy/carbon footprint but also which option would better suit the business in question. This includes carbon reduction for residential, transport, industrial and public sectors. The only book to clearly explain the economic and environmental engineering aspects of carbon reduction. Case studies taken from a number of international projects. Carbon reduction options for all sectors of society. The role of the planning system in carbon reduction.

Industrial Research in the United Kingdom

Economic Decision Analysis

Field Planning and Development Strategies

Final report

Report of an SSRC Advisory Group

Proceedings

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.

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

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

The Ultimate Resource

Enhanced Oil Recovery

Journal of Petroleum Technology

QFinance

Reservoir Characterization II

A Worked Examples Approach

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

New Scientist magazine was launched in 1956 “for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences”. The brand’s mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

Reservoir Characterization II contains the proceedings of the Second International Reservoir Characterization Conference held in Dallas, Texas in June 1989. Contributors focus on the characterization of reservoir processes and cover topics ranging from surface roughness in porous media and reservoir characterization at the mesoscopic scale to shale clast heterogeneities and their effect on fluid flow, permeability patterns in fluvial sandstones, and reservoir management using 3-D seismic data. This book is organized into six sections encompassing 43 chapters. The first 20 chapters deal with reservoir characterization at the microscopic, mesoscopic, and macroscopic scales. Topics include low-contrast resistivity sandstone formations: the use of centrifuge and computer tomography to quantify saturation distribution and capillary pressures; and cross-well seismology as a tool for reservoir geophysics. The chapters that follow deal with reservoir characterization at the megascopic scale: fractal heterogeneity of clastic reservoirs; heterogeneity and effective permeability of porous rocks; and drilling fluid design based on reservoir characterization. A chapter that outlines a procedure for estimating permeability anisotropy with a minipermeameter concludes the book. This book is a valuable resource for students and practitioners of petroleum engineering, geology and geological engineering, petroleum exploration, and geophysics.

For Project Feasibility Studies

Energy, Sustainability and the Environment

Towards Intelligent Systems Modeling and Simulation

Socio-Economic Development: Concepts, Methodologies, Tools, and Applications

This book creates the emergence of disruptive technologies that have led to a significant change in the role of mathematics and statistics for problem solving, with the use of sophisticated software and hardware in solving complex systems and process. In the era of digital technology, mathematics and statistics need to be highly relevant to be able to cater for the needs of IR4.0 such as big data analytics, simulation, autonomous system, and cloud computing. Motivated by this development, a total of 26 chapters are contributed by respectable experts for this book. The main scope of the book is to conduct a new system of modeling and simulations on solving differential equations, nonlinear equations, energy, epidemiology, and risk assessment. This book is of interest for postgraduate students, researchers as well as other scientists who are working in numerical modeling and simulations based on efficient mathematical and statistical techniques.

This book is a companion to "Natural Gas Hydrate in Oceanic and Permafrost Environments" (Max, 2000, 2003), which is the first book on gas hydrate in this series. Although other gases can naturally form clathrate hydrates (referred to after as 'hydrate'), we are concerned here only with hydrocarbon gases that form hydrates. The most important of these natural gases is methane. Whereas the first book is a general introduction to the subject of natural gas hydrate, this book focuses on the geology and geochemical controls of gas hydrate development and on gas extraction from naturally occurring hydrocarbon hydrates. This is the first broad treatment of gas hydrate as a natural resource within an economic geological framework. This book is written mainly to stand alone for brevity and to minimize duplication. Information in Max (2000; 2003) should also be consulted for completeness. Hydrate is a type of clathrate (Sloan, 1998) that is formed from a cage structure of water molecules in which gas molecules occupying void sites within the cages stabilize the structure through van der Waals or hydrogen bonding.

These proceedings represent the work of researchers presenting at the 16th European Conference on Knowledge Management (ECKM 2015). We are delighted to be hosting ECKM at the University of Udine, Italy on the 3-4 September 2015. The conference will be opened with a keynote from Dr Madelyn Blair from Pelerei Inc., USA on the topic "The Role of KM in Building Resilience". On the afternoon of the first day Dr Daniela Santarelli, from Lundbeck, Italy will deliver a second keynote speech. The second day will be opened by Dr John Dumay from Macquarie University, Sydney, Australia. ECKM is an established platform for academics concerned with current research and for those from the wider community involved in Knowledge Management to present their findings and ideas to peers from the KM and associated fields. ECKM is also a valuable opportunity for face to face interaction with colleagues from similar areas of interests. The conference has a well-established history of helping attendees advance their understanding of how people, organisations, regions and even countries generate and exploit knowledge to achieve a competitive advantage, and drive their innovations forward. The range of issues and mix of approaches followed will ensure an interesting two days. 260 abstracts were initially received for this conference. However, the academic rigor of ECKM means that, after the double blind peer review process there are 102 academic papers, 15 PhD research papers, 1 Masters research papers and 7 Work in Progress papers published in these Conference Proceedings. These papers reflect the continuing interest and diversity in the field of Knowledge Management, and they represent truly global research from many different countries, including Algeria, Austria, Bosnia and Herzegovina, Brazil, Canada, Chile, Colombia, Cuba, Cyprus, Czech Republic, Estonia, Finland, France, France, Germany, Hungary, India, Indonesia, Iran, Ireland, Italy, Japan, Jordan, Kenya, Lithuania, Mexico, Nigeria, Norway, Pakistan, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sultanate of Oman, Sweden, Switzerland, Thailand, The Netherlands, UK, United Arab Emirates, USA and Venezuela.

The Directory of Graduate Studies

Increasing Importance for Enhanced Oil Recovery

Research Into the Social Impact of North Sea Oil Developments in Scotland

Kansas Business Review

ECKM2015-16th European Conference on Knowledge Management

Petroleum Review

With increasing numbers of international students, this book explores how best to broaden the approaches to learning and teaching in the higher/further education environment. Rather than seeing internationalization as a problem to be addressed, this text embraces the opportunities for the enrichment of the learning environment through a values-driven approach to internationalization. Taking a post-positivist perspective, the book considers a range of questions about how to bring in global perspectives to the learning environment and education provision. Packed with case studies and vignettes from around the globe, the book proposes that the international student lies at the heart of the university as a source of cultural capital and intentional diversity, enriching the learning experience, enhancing staff experience and

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Concepts, Methodologies, Tools, and Applications

With Applications to Energy, Epidemiology and Risk Assessment

Internationalising Higher Education

Petroleum Economics and Risk Analysis

Evolution of Global Electricity Markets