Integrated Petroleum Reservoir Management: A Team Approach

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Integrated Petroleum Reservoir Management: Abdus Satter 1994 This text presents the fundamentals of integrated reservoir management practice, including the technical and management perspectives. Several actual examples and case studies are included for illustrative purposes.

Integrated Petroleum Reservoir Management: Abdus Satter 1996-01-01 Modern reservoir management practice needs integration of geoscience and engineering involving people, technology, tools, and data. This text presents the fundamentals of integrated reservoir management practice including the technical and management perspectives. Several actual examples and case studies are included for illustration purposes. This text is a must for engineers, geologists, and others involved in reservoir management.

Integrated Reservoir Asset Management: John Fanchi 2010-07-19 All too often, senior reservoir managers have found that their junior staff lack an adequate understanding of reservoir management techniques and best practices needed to optimize the development of oil and gas fields. Written by an expert professional/educator, Integrated Reservoir Asset Management introduces the reader to the processes and modeling paradigms needed to develop the skills to increase reservoir output and profitability and decrease guesswork. One of the only references to recognize the technical diversity of modern reservoir management teams, Fanchi seamlessly brings together concepts and terminology, creating an interdisciplinary approach for solving everyday problems. The book starts with an overview of reservoir management, fluids, geological principles used to characterize, and two key reservoir parameters (porosity and permeability). This is followed by an uncomplicated review of multi-phase fluid flow equations, an overview of the reservoir flow modeling process and fluid displacement concepts. All exercises and case studies are based on the authors 30 years of experience and appear at the conclusion of each chapter with hints in addition of full solutions. In addition, the book will be accompanied by a website featuring supplementary case studies and modeling exercises which is supported by an author generated computer program. Straightforward methods for characterizing subsurface environments Effortlessly gain and understanding of rock-fluid interaction relationships An uncomplicated overview of both engineering and scientific processes Exercises at the end of each chapter to demonstrate correct application Modeling tools and understanding of rock-fluid interaction relationships An uncomplicated overview of both engineering and scientific processes Exercises at the end of each chapter to demonstrate correct application Modeling tools and understanding of rock-fluid interaction relationships An uncomplicated overview of both engineering and scientific processes Exercises at the end of each chapter to demonstrate correct application Modeling tools.

Applied Petroleum Reservoir Engineering: Benjamin Cole Craft 1959

Integrated Waterflood Asset Management: Ganesh C. Thakur 1998 Waterflooding is one of the most important methods of improving recovery from oil reservoirs. With the economic uncertainty of various enhanced oil recovery techniques (due to oil price instability) waterflooding optimization is more significant than ever. This book provides a thorough understanding of the practical approach to waterflood asset management. It uses multidisciplinary integrated teams and resource management practices to enhance hydrocarbon recovery and maximize profitability. Satter and Thakur are co-authors of PennWell Books' bestseller, Integrated Reservoir Management: A Team Approach. Readers Will Learn: the fundamentals of waterflood management and multidisciplinary technology; the team approach to management through real-life examples; and the integration of engineering, geology and geophysics with operations, research, economics, and legal/environmental processes for effective waterflood asset management.

Reservoir Engineering: Abdus Satter 2015-09-22 Reservoir Engineering focuses on the fundamental concepts related to the development of conventional and unconventional reservoirs and how these concepts are applied in the oil and gas industry to meet both economic and technical challenges. Written in easy to understand language, the book provides valuable information regarding present-day tools, techniques, and technologies and explains best practices on reservoir management and recovery approaches. Various reservoir workflow diagrams presented in the book provide a clear direction to meet the challenges of the profession. As most reservoir engineering decisions are based on reservoir simulation, a chapter is devoted to introduce the topic in lucid fashion. The addition of practical field case studies make Reservoir Engineering a valuable resource for reservoir engineers and other professionals in helping them implement a comprehensive plan to produce oil and gas based on reservoir modeling and economic analysis, execute a development plan, conduct reservoir surveillance on a continuous basis, evaluate reservoir performance, and apply corrective actions as necessary. Connects key reservoir fundamentals to modern engineering applications. Bridges the conventional methods to the unconventional, showing the differences between the two processes. Offers field case studies and workflow diagrams to help the reservoir professional and student develop and sharpen management skills for both conventional and unconventional reservoirs.

Reservoir Modelling: Steve Cannon 2018-02-01 The essential resource to an integrated approach to reservoir modelling by highlighting both the input of data and the modelling results. Reservoir Modelling offers a comprehensive guide to the procedures and workflow for building a 3-D model. Designed to be practical, the principles outlined can be applied to any modelling project regardless of the software used. The author — a noted practitioner in the field — captures the heterogeneity due to structure, stratigraphy and sedimentology that has an impact on flow in the reservoir. This essential guide follows a general workflow from data QC and project management, structural modelling, facies and property modelling to upscaling and the requirements for dynamic modelling. The author discusses structural elements of a model and reviews both seismic interpretation and depth conversion, which are known to contribute most to volumetric uncertainty and shows how large-scale stratigraphic relationships are integrated into the reservoir framework. The text puts the focus on geographical modelling of facies and heterogeneities that constrain the distribution of reservoir properties including porosity, permeability and water saturation. In addition, the author discusses the role of uncertainty analysis in the static model and its impact on volumetric estimation. The text also addresses some typical approaches to modelling specific reservoirs through a mix of case studies and illustrative examples and offers a practical guide to the use of data to build a successful reservoir model. Reviews on the latest advances in 3-D modelling software. Reviews facies modelling, the different methods and the need for understanding the geological interpretation of cores and logs. Presents information on upscaling both the structure and the properties of a fine-scale geological model for dynamic simulation. Stresses the importance of an interdisciplinary team-based approach. Written for geophysicists, reservoir geologists and petroleum engineers, Reservoir Modelling offers the essential information.
needed to understand a reservoir for modelling and contains the multidisciplinary nature of a reservoir modelling project.

Integrated Sand Management For Effective Hydrocarbon Flow Assurance- 2015-06-15 This Handbook provides solutions to the fundamental issues associated with wells and reservoirs experiencing sanding problems, especially in deepwater environments. Sand Management is a massive challenge for the petroleum industry as it extends its exploration activities to new frontiers. Challenges like ultra-deepwater, High Pressure-High Temperature (HP-HT) and Arctic environments require engineers to drill more complex wells and manage more complex reservoirs, the majority of which are prone to massive sand production. Covering such fundamentals as how to maximize individual wells and field development performance, as well as how to minimize operational cost, non-productive time and guarantee flow assurance across the entire composite production system from reservoirs through the wellbore to the topside and flow lines, this handbook explains that the biggest challenge facing operators is the shortage of sand management personnel and helps companies realize the value of their assets. Reference for knowledge transfer and skills development in sand management for effective flow assurance

Emphasis on HP-HT and deepwater environments. Meets the needs of new and practising engineers alike as well as non-technical personnel supporting the offshore industry

Intelligent Digital Oil and Gas Fields-Gustavo Carvajal 2017-12-14 Intelligent Digital Oil and Gas Fields: Concepts, Collaboration, and Right-time Decisions delivers to the reader a roadmap through the fast-paced changes in the digital oil field landscape of technology in the form of new sensors, well mechanics such as downhole valves, data analytics and models for dealing with a barrage of data, and changes in the way professionals collaborate on decisions. The book introduces the new age of digital oil and gas technology and process components and provides a backdrop to the value and experience industry has achieved from these in the last few years. The book then takes the reader on a journey first at a well level through instrumentation and measurement for real-time data acquisition, and then provides practical information on analytics on the real-time data. Artificial intelligence techniques provide insights from the data. The road then travels to the “integrated asset” by detailing how companies utilize Integrated Asset Models to manage assets (reservoirs) within DOI (Distributed Operating Interface). The book then moves to predictive, new ways to operate smart wells, and optimize the asset. Intelligent Digital Oil and Gas Fields is packed with examples and lessons learned from various case studies and provides extensive references for further reading and a final chapter on the “next generation digital oil field,” e.g., cloud computing, big data analytics and advances in nanotechnology. This book is a reference that can help managers, engineers, operations, and IT experts understand specifics on how to filter data to create useful information, address analytics, and link workflows across the production value chain enabling teams to make better decisions with a higher degree of certainty and reduced risk. Covers multiple examples and lessons learned from a variety of reservoirs from around the world and production situations. Includes techniques on change management and collaboration. Delivers real and readily applicable knowledge on technical equipment, workflows and data challenges such as acquisition and quality control that make up the digital oil and gas field solutions of today. Describes collaborative systems and ways of working and how companies are transitioning work force to use the technology and making more optimal decisions

Shared Earth Modeling-John R. Fanchi, PhD 2002-08-25 Shared Earth Modeling introduces the reader to the processes and concepts needed to develop shared earth models. Shared earth modeling is a cutting-edge methodology that offers a synthesis of modeling paradigms to the geoscientist and petroleum engineer to increase reservoir output and profitability and decrease guesswork. Topics range from geology, petrophysics, and geophysics to reservoir engineering, reservoir simulation, and reservoir management. Shared Earth Modeling is a technique for combining the efforts of reservoir engineers, geophysicists, and petroleum geologists to create a simulation of a reservoir. Reservoir engineers, geophysicists, and petroleum geologists can create separate simulations of a reservoir that vary depending on the technology each scientist is using. Shared earth modeling allows these scientists to consolidate their findings and create an integrated simulation. This gives a more realistic picture of what the reservoir actually looks like, and helps companies realize the value of their assets. Reference for knowledge transfer and skills development in sand management for effective flow assurance.

Emphasis on HP-HT and deepwater environments. Meets the needs of new and practising engineers alike as well as non-technical personnel supporting the offshore industry.

Principles of Applied Reservoir Simulation-John R. Fanchi 2006 What makes this book so different and valuable to the engineer is the accompanying software, used by reservoir engineers all over the world every day. The new software, IFLO (replacing WINB4D, in previous editions), is a simulator that the engineer can easily install in a Windows operating environment. IFLO generates simulations of how the well can be tapped and feeds this to the engineer in a dynamic 3D perspective. This completely new software is much more functional, with better graphics and more scenarios from which the engineer can generate simulations. BENEFIT TO THE READER: This book and software helps the reservoir engineer do his or her job on a daily basis, better, more economically, and more efficiently. Without simulations, the reservoir engineer would not be able to do his or her job at all, and the technology available in this product is far superior to most companies internal simulation software.

Practical Enhanced Reservoir Engineering-Abdus Satter 2008: “This book is intended to be a reservoir engineer's handbook for college students, but it is not the usual college text book. It is a modern and very practical guide offering reservoir engineering fundamentals, advanced reservoir related topics, reservoir simulation fundamentals, and problems and case studies from around the world. It is designed to aid students and professionals alike in their active and important roles throughout the reservoir life cycle (discovery, delineation, development, production, and abandonment), and in the various phases of the reservoir management process (setting strategy, developing plan, implementing, monitoring, evaluating, and completing).”--Publisher's website.

Reservoir Formation Damage-Faruk Civan 2011-08-30 Reservoir Formation Damage, Second edition is a comprehensive treatise of the theory and modeling of common formation damage problems and is an important guide for research and development, laboratory testing for diagnosis and effective treatment, and tailor-fit design of optimal strategies for mitigation of reservoir formation damage. The new edition includes field case histories and simulated scenarios demonstrating the consequences of formation damage in petroleum reservoirs. Faruk Civan, Ph.D., is an Alumni Chair Professor in the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma in Norman. Dr. Civan has received numerous honors and awards, including five distinguished lectureship awards and the 2003 SPE Distinguished Achievement Award for Petroleum Engineering.
Integrated Waterflood Asset Management—Ganesh C. Thakur 1998 Waterflooding is one of the most important methods of improving recovery from oil reservoirs. With the economic uncertainty of various enhanced oil recovery techniques (due to oil price instability) waterflooding optimization is more significant than ever. This book provides a thorough understanding of the practical approach to waterflood asset management. It uses multidisciplinary integrated teams and resource management practices to enhance hydrocarbon recovery and maximize profitability. Satter and Thakur are co-authors of PennWell Books' bestseller, Integrated Reservoir Management: A Team Approach. Readers Will Learn: the fundamentals of waterflood management and multidisciplinary technology; the team approach to management through real-life examples; and the integration of engineering, geology and geophysics with operations, research, economics, and legal/environmental processes for effective waterflood asset management.

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production—Havard Devold 2013*

Project Management for the Oil and Gas Industry—Adedeji B. Badiru 2016-04-19 Project management for oil and gas projects comes with a unique set of challenges that include the management of science, technology, and engineering aspects. Underlining the specific issues involved in projects in this field, Project Management for the Oil and Gas Industry: A World System Approach presents step-by-step application of project management techniques. Using the Project Management Body of Knowledge (PMBOK®) framework from the Project Management Institute (PMI) as the platform, the book provides an integrated approach that covers the concepts, tools, and techniques for managing oil and gas projects. The authors discuss specialized tools such as plan, do, check, act (PDCA); define, measure, analyze, improve, control (DMAIC); suppliers, inputs, process, outputs, customers (SIPOC); design, evaluate, justify, integrate (DEJI); quality function deployment (QFD); affinity diagrams; flowcharts; Pareto charts; and histograms. They also discuss the major activities in oil and gas risk assessment, such as feasibility studies, design, transportation, utility, survey works, construction, permanent structure works, mechanical and electrical installations, and maintenance. Strongly advocating a world systems approach to managing oil and gas projects and programs, the book covers quantitative and qualitative techniques. It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real-life project scenarios that can serve as lessons learned for best practices. An in-depth examination of project management for oil and gas projects, the book is a handbook for professionals in the field, a guidebook for technical consultants, and a resource for students.

Petroleum Reservoir Engineering Practice—Nnaemeka Ezekwe 2010-09-09 The Complete, Up-to-Date, Practical Guide to Modern Petroleum Reservoir Engineering This is a complete, up-to-date guide to the practice of petroleum reservoir engineering, written by one of the world’s most experienced professionals. Dr. Nnaemeka Ezekwe covers topics ranging from basic to advanced, focuses on currently acceptable practices and modern techniques, and illuminates key concepts with realistic case histories drawn from decades of working on petroleum reservoirs worldwide. Dr. Ezekwe begins by discussing the sources and applications of basic rock and fluid properties data. Next, he shows how to predict PVT properties of reservoir fluids from correlations and equations of state, and presents core concepts and techniques of reservoir engineering. Using case histories, he illustrates practical diagnostic analysis of reservoir performance, covers essentials of transient well test analysis, and presents leading secondary and enhanced oil recovery methods. Readers will find practical coverage of experience-based procedures for geologic modeling, reservoir characterization, and reservoir simulation. Dr. Ezekwe concludes by presenting a set of simple, practical principles for more effective management of petroleum reservoirs. With Petroleum Reservoir Engineering Practice readers will learn to • Use the general material balance equation for basic reservoir analysis • Perform volumetric and graphical calculations of gas or oil reserves • Analyze pressure transients tests of normal wells, hydraulically fractured wells, and naturally fractured reservoirs • Apply waterflooding, gasflooding, and other secondary recovery methods • Screen reservoirs for EOR processes, and implement pilot and field-wide EOR projects • Use practical procedures to build and characterize geologic models, and conduct reservoir simulation • Develop reservoir management strategies based on practical principles Throughout, Dr. Ezekwe combines thorough coverage of analytical calculations and reservoir modeling as powerful tools that can be applied together on most reservoir analyses. Each topic is presented concisely and is supported with copious examples and references. The result is an ideal handbook for practicing engineers, scientists, and managers—and a complete textbook for petroleum engineering students.

Stratigraphic reservoir characterization for petroleum geologists, geophysicists, and engineers—Roger M. Slatt 2006-11-03 Reservoir characterization as a discipline grew out of the recognition that more oil and gas could be extracted from reservoirs if the geology of the reservoir was understood. Prior to that awakening, reservoir development and production were the realm of the petroleum engineer. In fact, geologists of that time would have felt slighted if asked by corporate management to move from an exciting field of petroleum exploration to a more mundane assignment working with an engineer to improve a reservoir’s performance. Slowly, reservoir characterization came into its own as a quantitative, multidisciplinary endeavor requiring a vast array of skills and knowledge sets. Perhaps the biggest attractor to becoming a reservoir geologist was the advent of fast computing, followed by visualization programs and theaters, all of which allow young geoscientists to practice their computing skills in a highly technical work environment. Also, the discipline grew in parallel with the evolution of data integration and the advent of asset teams in the petroleum industry. Finally, reservoir characterization flourished with the quantum improvements that have occurred in geophysical acquisition and processing techniques and that allow geophysicists to image internal reservoir complexities.

Practical Reservoir Simulation—M. R. Carlson 2003 This book uses a descriptive style for carrying out reservoir simulations, written by a seasoned practicing simulation engineer. The author shows how to link geology and simulation input, the most critical aspect of successful reservoir simulation.

Methods and Applications in Reservoir Geophysics—Michael R. Cooper 2010

Gas Well Deliquification—James F. Lea 2011-08-30 Liquid loading can reduce production and shorten the lifecycle of a well costing a company millions in revenue. A handy guide on the latest techniques, equipment, and chemicals used in de-watering gas wells, Gas Well Deliquification, 2nd Edition continues to be the engineer’s choice for recognizing and minimizing the effects of liquid loading. The 2nd Edition serves as a guide discussing the most frequently used methods and tools used to diagnose liquid loading problems and reduce the detrimental effects of liquid loading on gas production. With new extensive chapters on Coal Bed Methane and Production this is the essential reference for operating engineers, reservoir engineers, consulting engineers and service companies who supply gas well equipment. It provides managers with a comprehensive look into the methods of successful gas well deliquification as well as tools for the profitable use, production and supervision of coal beds. • Turnkey solutions for the problems of liquid loading interference • Based on decades of practical, easy to use methods of de-watering gas wells • Expands on the 1st edition’s useful reference with new methods for utilizing Production Automation and managing Coal Bed Methane

Petroleum Reservoir Fluid Property Correlations—William D. McCain 2011

Large sets of petroleum fluid data exist for the various reservoir conditions and properties that occur in practice. Petroleum Reservoir Fluid Property Correlations, written by three internationally well-known and respected petroleum engineers, is the result of years of exhaustive research that gathered data sets from databases all over the world. The data were then compared against the results of many published correlations of fluid properties in order to find the “best in class” required in the petroleum industry. Those findings are offered in this new book as recommended use in reservoir engineering calculations. The data sets cover natural gases, reservoir oils and reservoir waters (brines).
Petroleum Reservoir Fluid Property Correlations will prove to be a valuable resource for reservoir engineers, production engineers who need to determine which set of correlation equations are most useful for their work, and graduate-level reservoir engineering courses.

Reservoir Surveillance—Jitendra Kikani 2013-10-01

Petroleum Production Systems—Michael J. Economides 2012-09-25 Petroleum Production Systems, Second Edition, is the comprehensive source for clear and fundamental methods for 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: a undersaturated oil reservoir, a saturated oil reservoir, and a gas reservoir.

Project Management in the Oil and Gas Industry—Mohamed A. El-Reedy 2016-02-19 Oil and gas projects have special characteristics that need a different technique in project management. The development of any country depends on the development of the energy reserve through investing in oil and gas projects through onshore and offshore exploration, drilling, and increasing facility capacities. Therefore, these projects need a sort of management match with their characteristics, and project management is the main tool to achieving a successful project. Written by a veteran project manager who has specialized in oil and gas projects for years, this book focuses on using practical tools and methods that are widely and successfully used in project management for oil and gas projects. Most engineers study all subjects, but focus on project management in housing projects, administration projects, and commercial buildings or other similar projects. However, oil and gas projects have their own requirements and characteristics in management from the owners, engineering offices, and contractors’ side. Not only useful to graduating engineers, new hires, and students, this volume is an invaluable addition to any veteran project manager’s library as a reference or a helpful go-to guide. Also meant to be a refresher for practicing engineers, it covers all of the project management subjects from an industrial point of view specifically for petroleum projects, making it the perfect desktop manual. Not just for project managers and students, this book is valuable to any engineering discipline or staff in sharing or applying the work of a petroleum project and is a must-have for anyone working in this industry.

Formation Damage During Improved Oil Recovery—Bin Yuan 2018-06 Formation Damage during Improved Oil Recovery: Fundamentals and Applications bridges the gap between theoretical knowledge and field practice by presenting information on formation damage issues that arise during enhanced oil recovery. Multi-contributed technical chapters include sections on modeling and simulation, lab experiments, field case studies, and newly proposed technologies and methods that are related to formation damage during secondary and tertiary recovery processes in both conventional and unconventional reservoirs. Focusing on both the fundamental theories related to EOR and formation damage, this reference helps engineers formulate integrated and systematic designs for applying EOR processes while also considering formation damage issues. Presents the first complete reference addressing formation damage as a result of enhanced oil recovery Provides the mechanisms for formation damage issues that are coupled with EOR Suggests appropriate preventative actions or responses Delivers a structured approach on how to understand the fundamental theories, practical challenges and solutions

Carbon Dioxide Capture and Storage—Intergovernmental Panel on Climate Change. Working Group III.

Disruptive Possibilities: How Big Data Changes Everything—Jeffrey Needham 2013-05-06 Big data has more disruptive potential than any information technology developed in the past 40 years. As author Jeffrey Needham points out in this revealing book, big data can provide unprecedented visibility into the operations, as well as to the most valuable resources, of enterprises and agencies. Disruptive Possibilities provides an historically-informed overview through a wide range of topics, from the evolution of commodity supercomputing and the simplicity of big data technology, to the ways conventional clouds differ from Hadoop analytics clouds. This relentlessly innovative form of computing will soon become standard practice for organizations of any size attempting to derive insight from the tsunami of data engulfing them. Replacing legacy silos—whether they’re infrastructure, organizational, or vendor silos—with a platform-centric perspective is just one of the big stories of big data. To reap maximum value from the myriad forms of data, organizations and vendors will have to adopt highly collaborative habits and methodologies.

Biodegradation—Rolando Chany 2013-06-14 This book contains a collection of different research activities where several technologies have been applied to the optimization of biodegradation processes. The book has three main sections: A) Hydrocarbons biodegradation, B) Biodegradation and anaerobic digestion, and C) Biodegradation and sustainability.

Microbiologically Influenced Corrosion in the Upstream Oil and Gas Industry—Torben Lund Skovhus 2017-03-03 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 an understanding of MIC and its effective management.

Managing Natural Resources for Development in Africa—Washington Odongo Ochola 2010 The complex and dynamic interlinks between natural resource management (NRM) and development have long been recognized by national and international research and development organizations and have generated voluminous literature. However, much of what is available in the form of university course books, practical learning manuals and reference materials in NRM is based on experiences from outside Africa. Managing Natural Resources for Development in Africa: A Resource Book provides an understanding of the various levels at which NRM issues occur and are being addressed scientifically, economically, socially and politically. The book’s nine chapters present state-of-the-art perspectives within a holistic African context. The book systematically navigates the tricky landscape of integrated NRM, with special reference to the backdrop of prevailing local, national, regional and global social, economic and environmental challenges. The authors’ wide experience, the rich references made to emerging challenges and opportunities, and the presentation of different tools, principles, approaches, case studies and processes make the book a rich and valuable one-stop resource for postgraduate students, researchers, policymakers and NRM practitioners. The book is designed to help the reader grasp in-depth NRM perspectives and presents innovative guidance for research design and problem solving, including review questions, learning activities and recommended further reading. The book was developed through a writeshop process by a multi-disciplinary team of lecturers from the University of Nairobi, Egerton University, Kenyatta University, the University of Zimbabwe, the University of Malawi, Makerere University and the University of Dar es Salam. In addition, selected NRM experts from regional and international research organizations including the World Agroforestry Center (ICRAF), the Africa Forest Forum, RUFOREUM, IIRR and the International Development Research Centre (IDRC) participated in the writeshop and contributed material to the book.

Disruptive Possibilities: How Big Data Changes Everything—Jeffrey Needham 2013-05-06 Big data has more disruptive potential than any information technology developed in the past 40 years. As author Jeffrey Needham points out in this revealing book, big data can provide unprecedented visibility into the operations, as well as to the most valuable resources, of enterprises and agencies. Disruptive Possibilities provides an historically-informed overview through a wide range of topics, from the evolution of commodity supercomputing and the simplicity of big data technology, to the ways conventional clouds differ from Hadoop analytics clouds. This relentlessly innovative form of computing will soon become standard practice for organizations of any size attempting to derive insight from the tsunami of data engulfing them. Replacing legacy silos—whether they’re infrastructure, organizational, or vendor silos—with a platform-centric perspective is just one of the big stories of big data. To reap maximum value from the myriad forms of data, organizations and vendors will have to adopt highly collaborative habits and methodologies.
Competing on Analytics - Thomas H. Davenport 2007-03-06 You have more information at hand about your business environment than ever before. But are you using it to "out-think" your rivals? If not, you may be missing out on a potent competitive tool. In Competing on Analytics: The New Science of Winning, Thomas H. Davenport and Jeanne G. Harris argue that the frontier for using data to make decisions has shifted dramatically. Certain high-performing enterprises are now building their competitive strategies around data-driven insights that in turn generate impressive business results. Their secret weapon? Analytics: sophisticated quantitative and statistical analysis and predictive modeling. Exemplars of analytics are using new tools to identify their most profitable customers and offer them the right price, to accelerate product innovation, to optimize supply chains, and to identify the true drivers of financial performance. A wealth of examples—from organizations as diverse as Amazon, Barclay's, Capital One, Harrah's, Procter & Gamble, Wachovia, and the Boston Red Sox—illuminate how to leverage the power of analytics.

Carbonate Reservoir Characterization - George V. Chilingar 2015-01-21 Candidates for this course are recommended to attend the following: 1- A course for carbonate reservoir characterization due its sever heterogeneity. 2- Surface geological field trips for carbonate exposures. 3- To visit sites of recent carbonate (reefs) preferably by a sub marine glass boat to observe the variation in reef distribution and growth within the same locality.

Reservoir Management - Steve Cannon 2021-03-08 Reservoir management is fundamental to the efficient and responsible means of extracting hydrocarbons, and maximising the economic benefit to the operator; licence holders and central government. All stakeholders have a social responsibility to protect the local population and environment. The process of managing an oil or gas reservoir begins after discovery and continues through appraisal, development, production and abandonment; there is cost associated with each phase and a series of decision gates should be in place to ensure that an economic benefit exists before progress is made. To correctly establish potential value at each stage it is necessary to acquire and analyse data from the subsurface, the moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts into a commercial asset. Most explorers earn their bonus based on the initial estimates of in-place hydrocarbons, regardless of the ultimate cost of production; the explorers have usually moved on to a new basin before the first oil or gas is produced! This book is not a deeply academic tome, rather the description of a process enlivened by a number of stories and case studies from the author's forty years of experience in the oil-patch.

Valuing Climate Damages - National Academies of Sciences, Engineering, and Medicine 2017-05-23 The social cost of carbon (SC-CO2) is an economic metric intended to provide a comprehensive estimate of the net damages - that is, the monetized value of the net impacts, both negative and positive - from the global climate change that results from a small (1-metric ton) increase in carbon-dioxide (CO2) emissions. Under Executive Orders regarding regulatory impact analysis and as required by a court ruling, the U.S. government has since 2008 used estimates of the SC-CO2 in federal rulemakings to value the costs and benefits associated with changes in CO2 emissions. In 2010, the Interagency Working Group on the Social Cost of Greenhouse Gases (IWG) developed a methodology for estimating the SC-CO2 across a range of assumptions about future socioeconomic and physical earth systems. Valuing Climate Changes examines potential approaches, along with their relative merits and challenges, for a comprehensive update to the current methodology. This publication also recommends near- and longer-term research priorities to ensure that the SC-CO2 estimates reflect the best available science.


Reservoir Compartmentalization - S. J. Jolley 2010 *Reservoir compartmentalization - the segregation of a petroleum accumulation into a number of individual fluid-pressure compartments - controls the volume of moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts 'booking' of reserves and operational profitability. This is a general feature of modern exploration and production portfolios, and has driven major developments in geoscience, engineering and related technology. Given that compartmentalization is a consequence of many factors, an integrated subsurface approach is required to better understand and predict compartmentalization behaviour, and to minimize the risk of it occurring unexpectedly. This volume reviews our current understanding and ability to model compartmentalization. It highlights the necessity for effective specialist discipline integration, and the value of learning from operational experience in: detection and monitoring of compartmentalization; stratigraphic and mixed-mode compartmentalization; and fault-dominated compartmentalization*--Page 4 of cover.

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