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Introduction to Petroleum Biotechnology introduces the petroleum engineer to biotechnology, bringing together the various biotechnology methods that are applied to recovery, refining and remediation in the uses of petroleum and petroleum products. A significant amount of petroleum is undiscoverable in reservoirs today using conventional and secondary methods. This reference explains how microbial enhanced oil recovery is aiding to produce more economical and environmentally-friendly metabolic events that lead to improved oil recovery. Meanwhile, in the downstream side of the industry, petroleum refining operators are facing the highest levels of environmental regulations while struggling to process more of the heavier crude oils since conventional physical and chemical refining techniques may not be applicable to heavier crudes. This reference proposes to the engineer and refining manager the concepts of bio-refining applications to not only render heavier crudes as lighter crudes through microbial degradation, but also through bionitrogenation, biometallization and biodesulfurization, making more petroleum derivatives purified and upgraded without the release of more pollutants. Equipped for both upstream and downstream to learn the basics, this book is a necessary primer for today's petroleum engineer. Presents the fundamentals behind petroleum biotechnology for both upstream and downstream oil and gas operations Provides the latest technology in reservoir recovery using microbial enhanced oil recovery methods Helps readers gain insight into the current and future application of using biotechnology as a refining and fuel blending method for heavy oil and tar sands

Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up-to-date coverage of the technology used in the exploration, drilling, production, and operations in an offshore setting. Offshore oil and gas activity is growing at an expansive rate and this must-have training guide covers the full spectrum including geology, types of platforms, exploration methods, production and enhanced recovery methods, pipelines, and environmental management and impact, specifically worldwide advances in study, control, and prevention of the industry's impact on the marine environment and its living resources. In addition, this book provides a go-to glossary for quick reference. Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today. Quickly become familiar with the oil and gas offshore industry, including deepwater operations Understand the full spectrum of the business, including environmental impacts and future challenges Gain knowledge and exposure on critical standards and real-world case studies

Production chemistry issues result from changes in well stream fluids, both liquid and gaseous, during processing. Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids, it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved. Modern production methods, the need to upgrade crude oils of variable quality, and environmental constraints demand chemical solutions. Thus, oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems. Production Chemicals for the Oil and Gas Industry, Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down-hole and topside applications both onshore and offshore. Incorporating the large amount of research and applications since the first edition, this new edition reviews all past and present classes of production chemicals, providing numerous difficult-to-obtain references, especially SPE papers and patents. Unlike other texts that focus on how products perform in the field, this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance—information that is very useful for research and development. Each updated chapter begins by introducing a problem, such as scale or corrosion, for which there is a production chemical. The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in-depth descriptions of the structural classes of relevant production chemicals. He also mentions, when available, the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field. This edition includes two new chapters and nearly 50 percent more references.

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.

"Since 1859, oil has enabled and defined our economic, social and political landscape. Throughout this time, abundant supply ensured low, stable prices and the inner workings of the oil industry remained relatively obscure. Following a century and a half of relative calm, oil prices have become much more volatile as the sustainability and growth of reliable supply sources have been brought into question. This book provides a guide to oil; from its history, to sources of supply and drivers of demand; from how prices are determined daily in global wholesale oil markets, to how those markets are connected to prices at the pump." -- Book jacket.

This book is an introduction to oil and gas designed to be both accessible to absolute beginners who know nothing about the subject, and at the same time interesting to people who work in one area (such as drilling or seismic exploration) and would like to know about other areas (such as production offshore, or how oil and gas were formed, or what can go wrong). It begins by discussing oil and gas in the broader context of human society, and goes on to examine what they consist of, how and where they were formed, how we find them, how we drill for them and how we measure them. It describes production onshore and offshore, and examines in detail some instructive mishaps, including some that are well known, such as Deepwater Horizon and Piper Alpha, and other lesser known incidents. It looks at recent developments, such as shale oil, and concludes with some speculation about the future. It includes many references for readers who would like to read further. Mathematical content is minimal.

Practical Petroleum Geochemistry for Exploration and Production provides readers with a single reference that addresses the principle concepts and applications of petroleum geochemistry used in finding, evaluating, and producing petroleum deposits. Today, there are few reference books available

on how petroleum geochemistry is applied in exploration and production written specifically for geologists, geophysicists, and petroleum engineers. This book fills that void and is based on training courses that the author has developed over his 37-year career in hydrocarbon exploration and production. Specific topical features include the origin of petroleum, deposition of source rock, hydrocarbon generation, and oil and gas migrations that lead to petroleum accumulations. Also included are descriptions on how these concepts are applied to source rock evaluation, oil-to-oil, and oil-to-source rock correlations, and ways of interpreting natural gas data in exploration work. Finally, a thorough description on the ways petroleum geochemistry can assist in development and production work, including reservoir continuity, production allocation, and EOR monitoring is presented. Authored by an expert in petroleum geochemistry, this book is the ideal reference for any geoscientist looking for exploration and production content based on extensive field-based research and expertise. Emphasizes the practical application of geochemistry in solving exploration and production problems Features more than 200 illustrations, tables, and diagrams to underscore key concepts Authored by an expert geochemist that has nearly 40 years of experience in field-based research, applications, and instruction Serves as a refresher reference for geochemistry specialists and non-specialists alike

This book is about exploration for oil and gas and focuses particularly on seismic exploration in the hunt for hydrocarbons. The first part, "The Hunt for Hydrocarbons," gives general background information, with an introductory chapter on the beginnings of the oil business followed by three chapters that include elements of petroleum geology, geophysical methods, and drilling and logging. The second part, "Seismic Exploration for Hydrocarbons," consists of two chapters that describe rudiments of the seismic method and velocity measurements; two chapters discussing theory based on wave propagation and the convolutional model; and a chapter devoted to each of the three phases of seismic exploration: acquisition, processing, and interpretation. I have concentrated on seismic exploration because most of the oil and gas that has been found has been located by this method, and it is the only method that has the potential for the increased precision needed in what Halbouty (1982) calls "the deliberate search for the subtle trap." In contrast to elementary and introductory books that present the seismic method superficially and qualitatively, this book develops the method quantitatively, using only elementary mathematics (algebra and trigonometry), so that readers should be able to do things afterwards that they couldn't do before, and thereby get a deeper appreciation of the business of hunting for hydrocarbons. The book also probes into some sophisticated topics that wouldn't be mentioned in short courses at a variety of levels.

This book has been written for laymen, for all those who would like to understand the business of oil and gas without having to read through the ballast of technical background. This book is easy to read and nearly free of technical jargon and mathematical formulas. To help with understanding, a glossary has been added as an appendix. The book is meant as an introduction to the large field of geology and upstream petroleum technology. It addresses investment people, students, accountants, non-technical managers in an oil company, journalists, and all those who want to obtain a quick immersion into the oil and gas industry. If you are in the oil and gas business and need to explain to someone outside the field - this is intended for you. If you are a non-technical person (e.g., accountant, lawyer) in an oil company or are considering studying geology or petroleum engineering, this is the fastest way to read up on the subject matter. For the seasoned professional who is familiar with the subject matter, this book may come in useful to explain aspects of the business to outsiders. A special effort has been made to point out the stochastic nature of exploration, the value of information and knowledge and the economic and historic back-drop on which all commercial oil and gas operations take place. This book does not claim to be complete and correct to the last detail. Indeed, some aspects have been drastically over-simplified to make them easier to understand. For further study and for those who want to know more, there is a large body of books, teaching videos and webinars on the Internet in additions to commercial libraries. In fact, every aspect of the oil business is so rich in detail and profound in science that it requires study and specialists' knowledge. The subject of every chapter could be a full career or profession.

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

Hydrocarbon exploration (or oil and gas exploration) is the search by petroleum geologists and geophysicists for deposits of hydrocarbons, particularly petroleum and natural gas, in the Earth using petroleum geology. The book will benefit a wide variety of people - a layman interested in knowing more about petroleum exploration, a student seeking to make a career in the oil industry, or a fresh entrant to the petroleum field. It will also be a useful introduction to petroleum exploration for professionals from the downstream sectors of petroleum refining and marketing. To those already working in the industry, this book will be a good tool to educate their family and friends about the exciting world of oil exploration and drilling. The book will be useful for educational institutions, especially those in the field of earth sciences, petroleum, or engineering.

Présentation de l'éditeur : "In the oil business the setting up of joint ventures, the choice of the right partners, the establishment of clear objectives, and the creation of the right management structure are of crucial importance. The following through of thought processes at each stage is the key to the

success of the joint venture and each Part of the Guide aims to demonstrate this progression. In a way, this may sound obvious, but it should be stressed that the complexities of the joint venture activities are indeed daunting and require the correct handling of huge and diverse operations which are subject to ever-changing technical and technological factors, and are influenced by important economic, administrative and personnel aspects. Timing is of critical importance as correct co-ordination of all the relevant elements is required to ensure satisfactory progress. The current levels of joint venture management are the fruit of experience which has been costly to acquire. The joint venture management depends upon the advice of a range of experts in all the relevant disciplines and spheres, but difficult decisions have to be taken where the element of doubt has not been eliminated but reduced to the absolute minimum. This new book is no substitute for experience but will provide a vital reference source for anyone involved in oil and gas joint venturing."

A prominent linchpin in world politics and in security policies world over, oil and gas have tremendous value in both, the political and economical sectors of global relations, business establishments and policy. Regardless of whether one is a novice to a given field, or a well accomplished veteran in the field, there is a need for the continued engagement with the basics that underlie the core subjects. With that in mind, the Fundamentals of Oil and Gas is a perfect primer for the first-timer in the field, while also a copious text to help a seasoned veteran stay abreast with the nuances of the world of Oil and Gas.

This handbook has been compiled for readers with an interest in the oil and gas industry. It is an overview of the main processes and equipment. When we searched for a suitable introduction to be used for new engineers, I discovered that much of the equipment is described in standards, equipment manuals and project documentation. Little material was found to quickly give the reader an overview of the entire oil and gas industry, while still preserving enough detail to let the engineer have an appreciation of the main characteristics and design issues. I have had many requests that downstream processes be included, and have restructured the book into Upstream, Midstream, Refining and Petrochemical, adding basic information on these facilities. The main focus of the book is still the upstream production process.

This companion to Introduction to Oil and Gas Operational Safety will help you to prepare for the written assessment of the NEBOSH International Technical Certificate in Oil and Gas Operational Safety. Aligned directly to the NEBOSH syllabus, this revision guide includes learning outcomes and key revision points to help you consolidate your knowledge to enable you to effectively discharge workplace safety and responsibilities. With reference to the textbook, this revision guide provides complete syllabus coverage in bite sized chunks to help you pass the certificate and become an efficient practitioner in the Oil and Gas industry. Small, handy size making it ideal for use at home, in the classroom or on the move Includes revision exercises and answers to check your understanding Everything you need for productive revision in one handy reference source

This updated second edition of Oil & Gas Production in Nontechnical Language is an excellent introduction for anyone from petroleum engineers and geologists new to their careers to financial, marketing, legal, and other professionals and their staffs interested in the industry. E&P service company personnel will find it particularly beneficial in understanding the roles played by their clients. Not only does it cover production fundamentals, but it backs up to give the necessary upstream background--geology, origins of oil and gas, and ownership and land rights--as well as surface operations and even production company strategy development.

Operating Expenses, Cash Flow, Finding and Development Costs, Return on Capital Employed are but a few of the hundreds of measurements and metrics used to analyze performance in the oil and gas industry. From individual wells to entire portfolios, performance analysis is used to make decisions throughout an organization. Unfortunately, performance analysis is generally conducted in the higher echelons of an oil and gas company, and thus its value in creating actionable information at the field level is generally lost. This book seeks to bridge this gap by introducing the basic concepts of oil and gas performance analysis. Features and Benefits A common sense methodology that will keep any performance analysis focused, on point and capable of providing useful and actionable information An introduction to the myriad of data sources used in performance analysis including lease operating statements (LOS reports), reserve reports and financial statements An introduction to the most relevant performance metrics used in oil and gas performance analysis including production and cost metrics, reserves, cash flow, and other financial metrics How to analyze, interpret, and evaluate the performance of individual fields, portfolios and overall company performance Audience Field level personnel Management Engineers Energy lending and finance professionals Anyone who seeks to understand how, or relies upon, performance analysis

The perfect primer for both the layperson and the engineer, for the new hire and the old hand, describing, in easy-to-understand language, one of the biggest and most lucrative industries in the world. There is only one substance known to mankind that can cause wars, influence global economies, and make entire countries rich: petroleum. One teaspoon of the stuff carries enough energy to power a ton truck up a hill. It's in the news every single day, it influences our lives in ways that we cannot fathom, and it is the most important commodity in the world. But how much does the average person, even the average engineer, know about it? This book describes the petroleum industry, in easy-to-understand language, for both the layperson and engineer alike. From the economics

of searching for oil and gas to the pitfalls of drilling and production, getting it out of the ground, into pipelines, into refineries, and, finally, into your gas tank, this book covers the petroleum industry like no other treatment before. There is coverage of pricing and the economics of this very important resource, as well, which is useful not only to engineers, but to economists and, really, anyone who uses it. From jet fuel to gasoline to natural gas and plastics, petroleum is one of the integral products of our lives. We are practically bathed in it from birth, our food is protected by it, and it even has healing properties. Learn all about this incredible substance and its fascinating history and highly debated future. An Introduction to Petroleum Technology, Economics, and Politics: Gives a thorough summary of the petroleum and natural gas industry, from prospect to production to pipeline New technologies, such as directional and underbalanced drilling, are covered, in easy-to-understand language Useful not only for newcomers and laypersons, but for engineers and students, particularly those for whom English is a second language Examines the basics of pricing and valuation

This book offers you a brief, but very involved look into the operations in the drilling of an Oil & Gas well. From start to finish, you'll see a general prognosis of the drilling process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages.

Presents key concepts and terminology for a multidisciplinary range of topics in petroleum engineering Places oil and gas production in the global energy context Introduces all of the key concepts that are needed to understand oil and gas production from exploration through abandonment Reviews fundamental terminology and concepts from geology, geophysics, petrophysics, drilling, production and reservoir engineering Includes many worked practical examples within each chapter and exercises at the end of each chapter highlight and reinforce material in the chapter Includes a solutions manual for academic adopters

The history of the European oil and gas industry reflects local as well as global political events, economic constraints and the personal endeavours of individual petroleum geoscientists as much as it does the development of technologies and the underlying geology of the region. The first commercial oil wells in Europe were drilled in Poland in 1853, Romania in 1857, Germany in 1859 and Italy in 1860. The 23 papers in this volume focus on the history and heritage of the oil and gas industry in the key European oil-producing countries from the earliest onshore drilling to its development into the modern industry that we know today. The contributors chronicle the main events and some of the major players that shaped the industry in Europe. The volume also marks several important anniversaries, including 150 years of oil exploration in Poland and Romania, the centenary of the drilling of the first oil well in the UK and 50 years of oil production from onshore Spain.

Performance Management for the Oil, Gas, and Process Industries: A Systems Approach is a practical guide on the business cycle and techniques to undertake step, episodic, and breakthrough improvement in performance to optimize operating costs. Like many industries, the oil, gas, and process industries are coming under increasing pressure to cut costs due to ongoing construction of larger, more integrated units, as well as the application of increasingly stringent environmental policies. Focusing on the 'value adder' or 'revenue generator' core system and the company direction statement, this book describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries. The book will enable the reader to: utilize best practice principles of good governance for long term performance enhancement; identify the most significant performance indicators for overall business improvement; apply strategies to ensure that targets are met in agreed upon time frames. Describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries Helps readers set appropriate and realistic short-term/ long-term targets with a pre-built facility health checker Elucidates the relationship between PSM, OHS, and Asset Integrity with an increased emphasis on behavior-based safety Discusses specific oil and gas industry issues and examples such as refinery and gas plant performance initiatives and hydrocarbon accounting

The immediate product extracted from oil and gas wells consists of mixtures of oil, gas, and water that is difficult to transport, requiring a certain amount of field processing. This reference analyzes principles and procedures related to the processing of reservoir fluids for the separation, handling, treatment, and production of quality petroleum oil and gas products. It details strategies in equipment selection and system design, field development and operation, and process simulation and control to increase plant productivity and safety and avoid losses during purification, treatment, storage, and export. Providing guidelines for developing efficient and economical treatment systems, the book features solved design examples that demonstrate the application of developed design equations as well as review problems and exercises of key engineering concepts in petroleum field development and operation.

Aligned directly to the NEBOSH syllabus, this book covers the breadth and depth of oil and gas operational safety. This book guides the reader through the principles of how to manage operational risks, carefully conveying a technical subject in a clear, concise manner that readers will find comfortable to read and understand. Written in full colour by a highly experienced team who have many years' experience within the field, this book is undoubtedly an essential tool to enhance your understanding of operational safety within the oil and gas industry.