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Energy, Information, Feedback, Adaptation, and Self-organization

- Spyros G Tzafestas 2018-01-03

This unique book offers a comprehensive and integrated introduction to the five fundamental elements of life and society: energy, information, feedback, adaptation, and self-organization. It is divided into two parts. Part I is concerned with energy (definition, history, energy types, energy sources, environmental impact); thermodynamics (laws, entropy definitions, energy, branches of thermodynamics, entropy interpretations, arrow of time); information (communication and transmission, modulation-demodulation, coding-decoding, information theory, information technology, information science, information systems); feedback control (history, classical methodologies, modern methodologies); adaptation (definition, mechanisms, measurement, complex adaptive systems, complexity, emergence); and self-organization (definitions/opinions, self-organized criticality, cybernetics, self-organization in complex adaptive systems, examples in nature). In turn, Part II studies the roles, impacts, and applications of the five above-mentioned elements in life and society, namely energy (biochemical energy pathways, energy flows through food chains, evolution of energy resources, energy and economy); information (information in biology, biocomputation, information technology in office automation, power generation/distribution, manufacturing, business, transportation),

feedback (temperature, water, sugar and hydrogen ion regulation, autocatalysis, biological modeling, control of hard/technological and soft/managerial systems), adaptation and self-organization (ecosystems, climate change, stock market, knowledge management, man-made self-organized controllers, traffic lights control).

The Technology of Catalytic Oxidations - Philippe Arpentinier 2001
Volume 1 covers the most important technological aspects of the use of molecular oxygen for catalytic oxidation reactions. Volume 2 addresses the safety issues associated with the use of oxygen in catalytic oxidation reactions. Contents Vol. 1: 1. Introduction. 2. Chemical-physical properties of molecular oxygen. 3. Oxygen production technologies. 4. Chemical fundamentals of oxidation reactions. 5. Reactor technologies for multiphase systems. 6. Liquid phase oxidations. 7. Gas phase selective oxidations. 8. Selective oxidation of paraffins. References. Index. Vol. 2: 9. Introduction to safety problems in the chemical industry. 10. Chemical aspects of combustion in the gaseous phase. 11. Homogeneous chemical explosions: autoignition or spontaneous ignition. 12. Deflagration or propagation of flame. 13. Conditions governing flame propagation capability. 14. Detonation in the gaseous phase. 15. Prevention of and protection against explosions. References. Index.

Greenhouse Gas Control Technologies - B. Eliasson 1999-05-20
These proceedings contain 270 papers outlining ideas and contributions

to the new scientific, technical and political discipline of Greenhouse Gas (GHG) Control. The contributions were presented at the 4th International Conference on Greenhouse Gas Control Technologies (GHGT-4). It was the largest gathering of experts active in this new and fast-developing field. GHGT-4 was different from its predecessors in that it included all greenhouse gases, not only CO₂, and all issues which could contribute to the mitigation of the greenhouse problem - technical, economic and political. The main focus was on practical solutions and real demonstrations of mitigation technology being planned and implemented today. It also addressed ways to increase the efficiency of power production and utilisation, and looked at proposals to encourage the development of renewable energy sources. During the Opening Session, 10 keynote addresses were heard from prominent personalities in government, industry and academia. To tackle this very inter-disciplinary problem and to achieve acceptable solutions, it is essential for industry and government to initiate intense dialogue and cooperation. Conferences like this can provide the opportunity for a meeting of minds between engineers and politicians in the face of global challenge. The primary attributes of this global challenge are manifold: the problem is global and international; it is inter-disciplinary, both in substance and approach; it covers technical, political and economic issues and involves government, science, industry and academia; it is complex and non-linear; and it will take the efforts of all parties involved to solve the problem. These proceedings contain ideas for starting demonstration projects and for making better use of the power and flexibility of market measures. They also show it is a problem we can influence and that there is a wealth of ideas. The challenge now is to find the right partners to put these ideas into action.

Petroleum Refining - Mark J. Kaiser 2019-09-11

For four decades, Petroleum Refining has guided thousands of readers toward a reliable understanding of the field, and through the years has become the standard text in many schools and universities around the world offering petroleum refining classes, for self-study, training, and as a reference for industry professionals. The sixth edition of this perennial

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

Peak Oil Debate - Laurel Graefe 2011-04

For the past half-century, a debate has raged over when 'peak oil' will occur - the point at which output can no longer increase and production begins to level off or gradually decline. Determining how long the oil supply will last has become even more pressing because the world's energy supply still relies heavily on oil, and global energy demand is expected to rise steeply over the next twenty years. This article seeks to bring the peak oil debate into focus. The author provides definitions of frequently used terms, delineating types of reserves and conventional versus non-conventional resources. She also discusses how technological innovations, gov't. policies, and prices influence oil production. Illus. A print on demand report.

Using the Engineering Literature, Second Edition - Bonnie A. Osif 2016-04-19

With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is

information and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans. While the award-winning first edition of *Using the Engineering Literature* used a roadmap analogy, we now need a three-dimensional analysis reflecting the complex and dynamic nature of research in the information age. *Using the Engineering Literature, Second Edition* provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes. Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.

Oil and Gas Exploration and Production - Nadine Bret-Rouzaut 2011
With contributions by D. Babusiaux (IFP Energies nouvelles), S. Barreau (IFP Energies nouvelles), P.-R. Bauquis (Total), N. Bret-Rouzaut (IFP Energies nouvelles), A. Chétrit (Total), P. Copinschi (IFP Energies nouvelles), J.-P. Favennec (IFP Energies nouvelles), R. Festor (Total), E. Feuillet-Midrier (IFP Energies nouvelles), M. Grossin (Total), D. Guirauden (Beicip), V. Lepez (Total), P. Sigonney (Total) et M. Valette (Total). The first edition of this book has been selected for inclusion in Choice's annual Outstanding Academic titles list. It has been rewarded for its excellence in scholarship and presentation, the significance of its contribution to the field, and its value as important treatment of the subject. The steps that lead to the production of oil and gas are diverse, complex and costly. They are diverse because the detection of oil and gas involves input from many specialties, ranging from geology to reservoir

engineering. They are complex, as shown by the development of the job of the petroleum architect, who coordinates all the operations. They are costly, as the investments for exploration and production represent more than half of all investments in the oil and gas sector. Moreover, exploration is a risky activity, both from the technical and financial viewpoint: only one well in five produces marketable oil. Meanwhile, the areas for exploration and production are spread throughout the world. This book provides a complete overview of the stakes and challenges involved in oil and gas exploration and production. Following a historical review and a survey of the markets, the technical phases are covered, as are the evaluation of reserves, the estimation of investments and costs, the decision-making and control processes, and the accounting, legal and contractual environment for these activities. The book concludes with a discussion of the role of safety, and of environmental and ethical issues. This work, which is designed for readers concerned with the various aspects of the oil and gas upstream sector, is accessible to all. This second edition takes into account the huge changes in the oil and gas industry, particularly the large increases in oil prices, investments and costs observed since the first edition. This book is available in French under the title "Recherche et production du pétrole et du gaz". Contents :
1. Petroleum: a strategic product. 2. Oil and gas exploration and production. 3. Hydrocarbon reserves. 4. Investments and costs. 5. Legal, fiscal and contractual framework. 6. Decision-making on exploration and production. 7. Information, accounting and competition analysis. 8. Health, safety, the environment, ethics. Bibliography. Glossary. Index.
Thermal Methods of Oil R... - Burger J. 1985

[Petroleum Economics and Risk Analysis](#) - Mark Cook 2021-01-29
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

Petroleum Economics - Jean Masseron 1990

Petroleum Refining - James H. Gary 2007-03-05

Petroleum refiners must face billion-dollar investments in equipment in order to meet ever-changing environmental requirements. Because the design and construction of new processing units entail several years' lead time, refiners are reluctant to commit these dollars for equipment that may no longer meet certain conditions when the units come on stream. Written by experts with both academic and professional experience in refinery operation, design, and evaluation, *Petroleum Refining Technology and Economics, Fifth Edition* is an essential textbook for students and a vital resource for engineers. This latest edition of a bestselling text provides updated data and addresses changes in refinery feedstock, product distribution, and processing requirements resulting from federal and state legislation. Providing a detailed overview of today's integrated fuels refinery, the book discusses each major refining process as they relate to topics such as feedstock preparation, operating costs, catalysts, yields, finished product properties, and economics. It also contains end-of-chapter problems and an ongoing case study.

Shale Oil and Gas Handbook - Sohrab Zendehboudi 2016-11-19

Shale Oil and Gas Handbook: Theory, Technologies, and Challenges provides users with information on how shale oil and gas exploration has revolutionized today's energy industry. As activity has boomed and job growth continues to increase, training in this area for new and experienced engineers is essential. This book provides comprehensive information on both the engineering design and research aspects of this

emerging industry. Covering the full spectrum of basic definitions, characteristics, drilling techniques, and processing and extraction technologies, the book is a great starting point to educate oil and gas personnel on today's shale industry. Critical topics covered include characterization of shale gas, theory and methods, typical costs, and obstacles for exploration and drilling, R&D and technology development in shale production, EOR methods in shale oil reservoirs, and the current status and impending challenges for shale oil and gas, including the inevitable future prospects relating to worldwide development. Reveals all the basic information needed to quickly understand today's shale oil and gas industry, including advantages and disadvantages, equipment and costs, flow diagrams, and processing stages Evenly distributes coverage between oil and gas into two parts, as well as upstream and downstream content Provides a practical handbook with real-world case studies and problem examples, including formulas and calculations
OAPEC - 2008

Geochemistry of Fossil Fuels - Alain-Yves Huc 2013

Understanding the origin and fate of hydrocarbons in the subsurface was the major endeavor of organic geochemists during the second half of the twentieth century. They succeeded to the point where the deciphered interplaying of elements and processes paved the way for the revolutionary concept of the petroleum system, a unifying paradigm that plays an important role in decision making associated with oil and gas exploration. The chemistry and physics involved have been addressed in a quantitative way and integrated into the other aspects of petroleum geology, giving rise to the development of numerical basin modeling. This book has been designed to offer an overview of different aspects of the geochemistry of fossil fuels, in particular the functioning of a petroleum system. In this respect, it can be viewed as a foundation for approaching basin modeling. This book will be of interest to a large audience including specialists in the field, nonspecialist professionals, and undergraduate and graduate students.

European Economic and Political Issues - Frank Columbus 2003

Vexing issues concerning internal and external change challenge Europe as it tries hard to regroup, reform and refocus. This series is intended to present an ongoing forum to stimulate discussion of these issues.

Political Bailout in Germany; Integrating European Financial Services: Developing Substantive Theory; The External and Internal Balance of the Convergence Process of Transformation Economies to the EU; Economic Effects of Nuclear Phase-Out in Germany; The Asymmetric Adjustment of Prices: Theory and Evidence from UK Manufacturing; European Union: Deeper Integration or Wider Membership? A Multivariate Statistical Analysis: Introduction; Research Design; The European Community on an Uncertain Path; Active Citizenship in the Changing Society -- Evidence from Six European Countries; European Union Media Policy: Finding a Path Between Commercial and Public Broadcasting in a Dual System; Index.

Cross-border Oil and Gas Pipelines and the Role of the Transit Country - E. Omonbude 2016-01-12

With frequent discoveries of energy resources in remote and undeveloped areas, the importance of transnational oil and gas pipelines is set to grow ever more prominent. This study dissects the diplomacy and bargaining power of the transit country and the shifting economic relations involved in cross-border energy transportation.

Manual of Process Economic Evaluation - Alain Chauvel 2003

This volume will enable the reader to successfully undertake pre-project evaluations, especially in the areas of refining and petrochemistry. It encompasses all the essential steps: market analysis, comparative studies of technical and economic issues, sensitivity studies, sizing and costing of the equipment required for an industrial-scale plant, estimation of capital spending, calculation of costs and sales prices, etc. The first edition of this manual proved to be a very valuable teaching tool for universities and advanced engineering and business schools, both in France and abroad. It is essential for the rapid evaluation of the cost and profitability of proposed plants and of those already in operation. It has been widely used by engineers, consulting firms, and corporate research and development departments. Its status as the only current publication

that covers all the steps involved in the economic evaluation of projects will render it particularly valuable to its users. It will quickly become indispensable to everyone whose job it is to evaluate the economic impact of the development, cancellation or reorientation of a project. Contents: 1. Market analysis. 2. The elements of economic calculation. 3. The determination of battery limits investments. Appendix 1. Functional modules method (FMM). Appendix 2. PrE-estimate method. Bibliography. Index

Heavy Crude Oils - Alain-Yves Huc 2010

Heavy oils, extra-heavy oils and tar sands are major players for the future of energy. They represent a massive world resource, at least the size of conventional oils. They are found all over the world but Canada and Venezuela together account, by themselves, for more than half of world deposits. They share the same origin as the lighter conventional oils, but their geological fate drove them into thick, viscous tar-like crude oils. Most of them result from alteration processes mediated by microbial degradation. They are characterized by a low content of lighter cuts and a high content of impurities such as sulfur and nitrogen compounds and metals ; so, their production is difficult and deployment of specific processes is required in order to enhance their transportability and to upgrade them into valuable products meeting market needs, and honouring environmental requirements. Although these resources are increasingly becoming commercially producible, less than 1% of total heavy crude oil deposits worldwide are under active development. The voluntarily wide scope of this volume encompasses geology, production, transportation, upgrading, economics and environmental issues of heavy oils. It does not pretend to be exhaustive, but to provide an authoritative view of this very important energy resource.

Petrochemistry - Martin Bajus 2020-01-03

A comprehensive textbook on petrochemical conversion processes for petroleum and natural gas fractions as produced by refinery operations. This innovative textbook provides essential links between the chemical sciences and chemical technology, between petrochemistry and hydrocarbon technology. The book brings alive key concepts forming the

basis of chemical technology and presents a solid background for innovative process development. In all chapters, the processes described are accompanied by simplified flow schemes, encouraging students to think in terms of conceptual process designs. Petrochemistry: Petrochemical Processing, Hydrocarbon Technology and Green Engineering introduces students to a variety of topics related to the petrochemical industry, hydrocarbon processing, fossil fuel resources, as well as fuels and chemicals conversion. The first chapter covers the fundamentals and principals for designing several of the processes in the book, including discussions on thermodynamics, chemical kinetics, reactor calculations, and industrial catalysts. The following chapters address recent advances in hydrocarbon technology, energy technology, and sources of hydrocarbons. The book then goes on to discuss the petrochemical industry based on four basic pillars, all derived from petroleum and natural gas: Production of lower alkenes; other sources of lower alkenes; petrochemicals from C2-C3 alkenes Production of BTX aromatics; chemicals from BTX aromatics C1 technology Diversification of petrochemicals The growing importance of sustainable technology, process intensification and addressing greenhouse gas emissions is reflected throughout the book. Written for advanced students working in the areas of petrochemistry, hydrocarbon technology, natural gas, energy materials and technologies, alternative fuels, and recycling technologies the book is also a valuable reference for industrial practitioners in the oil and gas industry.

Energy Economics - Subhes C. Bhattacharyya 2011-02-28

Since its modest beginning in the 1970s, the academic and research focus on energy has grown substantially and energy has established itself as an independent, interdisciplinary subject area. It attracts attention from people in a range of different fields including engineers, scientists, geologists, environmentalists, bankers, investors, policy makers and politicians. Energy Economics introduces the basic concepts of energy economics and explains how simple economic tools can be used to analyse contemporary energy issues. Energy Economics is organised into six parts that give the reader a thorough grounding in various key

aspects of the subject: basic demand-related concepts and ideas used in energy economics; supply-side economics; energy markets, with specific emphasis on oil, gas and coal; the application of simple economic principles in analysing contemporary energy issues; environmental aspects of energy use; and regulatory and governance issues. Energy Economics is an easily accessible reference book for students of energy economics at the postgraduate level, as well as for a wider interdisciplinary audience. It provides readers with the skills required to understand and analyse complex energy issues from an economic perspective.

Handbook of Petrochemical Processes - James G. Speight 2019-06-13

The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers. The purpose of this book is not only to provide a follow-on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process. Following from the introductory chapters, this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products, process technology, and polymer synthesis. Provides readers with a valuable source of information containing insights into petrochemical reactions and products, process technology, and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum-based hydrocarbons into the chemicals that form the basis of the multi-billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry - including an overview of the coal chemicals industry

Handbook of Petroleum Refining - James G. Speight 2016-10-26

Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry. This book covers current refinery processes and process-types that are likely to come on-stream during the next three to five decades. The book includes (1) comparisons of conventional feedstocks with heavy oil, tar sand bitumen, and bio-feedstocks; (2) properties and refinability of the various feedstocks; (3) thermal processes versus hydroprocesses; and (4) the influence of refining on the environment.

Fuels and Lubricants Handbook -

After the US Shale Gas Revolution - Thierry Bros 2012

After 20 years at different positions in the gas sector, from the policy side to trading floors, the author gives an overview of the major gas issues and elaborates on the consequences of the US shale gas revolution. The first part of the book provides basic knowledge and gives needed tools to better understand this industry, that often stands, in sandwich, between upstream oil and utilities. After extensive research, publication and teaching, the author shares his insights on fundamental issues all along the gas chain and explains the price mechanisms ranging from oil-indexation to spot. The second part looks into the future of worldwide gas balance. To supply growing markets, the major resource holder, Russia, is now in direct competition with the major gas producer, the US. China has the potential not only to select the winner but also to decide the pricing principle for all Asian buyers in 2020. As China is a new and growing gas importer and has a lower price tolerance than historical Asian buyers (Japan and South Korea), it is highly possible that, against basic geography, China selects waterborne US LNG versus close Russian pipe gas, to achieve lower import price. Europe, so risk adverse that it won't be able to take any decision regarding shale gas production on this side of 2020, should see its power fading on the energy scene and would rely more on Russia. Gas geopolitics could tighten Russia stronghold on Europe, on one side, and create a flourishing North America-Asian trade... This book is accessible to ail and will particularly interest readers seeking a global gas perspective where economics and

geopolitics mix. It can be read as an economic novel where billions of \$ are invested to shape tomorrow energy world or as a geopolitical thriller where Russia and the US compete to impose their respective agenda, leaving China to select the winner.

Well Production Practical Handbook - Henri Cholet 2008

Complete & Comprehensive overview of field development and well production, providing a wealth of practical information. A reference guide for petroleum engineers + oilfield operators. Provides readily-available solutions to practical problems. Formulas, charts, 155 figures, 201 tables. Glossary & index.

The Chemistry and Technology of Petroleum, Fifth Edition - James G. Speight 2014-02-26

With demand for petroleum products increasing worldwide, there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput. In addition, changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies. These factors underlie the need for this fifth edition of *The Chemistry and Technology of Petroleum*, which continues in the tradition of the bestselling fourth edition, proving readers with a detailed overview of the chemistry and technology of petroleum as it evolves into the twenty-first century. The new edition has been updated with the latest developments in the refining industry, including new processes as well as updates on evolving processes and various environmental regulations. The book covers issues related to economics and future refineries, examines the changing character of refinery feedstock, and offers new discussions on environmental aspects of refining. It contains more than 300 figures and tables, including chemical structures and process flow sheets. A useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry, this book introduces readers to the science and technology of petroleum, beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates.

Oil & Gas Engineering Guide (The) - 2nd ED - BARON Hervé

2015-03-01

This book provides the reader with: • a comprehensive description of engineering activities carried out on oil & gas projects, • a description of the work of each engineering discipline, including illustrations of all common documents, • an overall view of the plant design sequence and schedule, • practical tools to manage and control engineering activities. This book is designed to serve as a map to anyone involved with engineering activities. It enables the reader to get immediately oriented in any engineering development, to know which are the critical areas to monitor and the proven methods to apply. It will fulfill the needs of anyone wishing to improve engineering and project execution. Table des matières : 1. Project Engineering. 2. The Design Basis. 3. Process. 4. Equipment/Mechanical. 5. Plant Layout. 6. Safety & Environment. 7. Civil Engineering. 8. Materials & Corrosion. 9. Piping. 10. Plant Model. 11. Instrumentation and Control. 12. Electrical. 13. Off-Shore. 14. The Overall Work Process. 15. BASIC, FEED and Detail Design. 16. Matching the Project Schedule. 17. Engineering Management. 18. Methods & Tools. 19. Field Engineering. 20. Revamping.

Petroleum Economics - Jean Masseron 1990

This book is a valuable tool in understanding the dynamics of the oil industry from both a broad and specific economic perspective. It contains insights into the underlying features and mechanisms of the oil industry and its many branches, as well as a special emphasis on relevant international problems. It also provides a wealth of statistical information and should be of interest to all concerned with energy matters" (Euroil). "Petroleum Economics, by Jean Masseron, is a fine introductory text to the entire scope of activities and economic conditions facing the worldwide petroleum industry" (AAPG Bulletin). "This book, already used by many organizations, should be especially useful for engineers, economists and managers concerned with energy matters, and also those who, beyond the technical aspects, wish to acquire and in-depth understanding of the economic mechanisms in a vital sector for world development today" (JCPT). Contents : Introduction: Principal economic characteristics. I. Crude oil supply and demand. 1. The crude oil market.

2. Technical cost of exploration and production. 3. Tax and legal aspects. II. The economics of crude oil transportation. 1. Transportation by tanker. 2. Crude oil pipelining. III. Finished products supply: refining. 1. The search for optimal economic conditions. 2. Present unit location and cost of refinery processing. 3. Legal organization. IV. Demand and marketing of petroleum products. 1. The petroleum products in the principal consuming countries. 2. The distribution of petroleum products. 3. The marketing of petroleum products. V. Petrochemicals. 1. General characteristics. 2. Economics of two large basic units. 3. The market for the principal finished products. 4. Problems of today. VI. Natural gas. 1. Natural gas supply in the world. 2. Transportation. 3. International markets and prices. Conclusion: Energy and petroleum problems of the future. Bibliography.

Petroleum and Gas Field Processing - Hussein K. Abdel-Aal

2015-09-18

Many oil production processes present a significant challenge to the oil and gas field processing facilities and equipment design. The optimization of the sequential operations of handling the oil-gas mixture can be a major factor in increasing oil and gas production rates and reducing operating costs. Petroleum and Gas Field Processing provides an all-inclusive guide to surface petroleum operations and solves these and other problems encountered in the field processing of oil and gas. Fully revised and updated to reflect major changes over the past decade or so, this second edition builds on the success attained in the first edition. It delivers an expanded and updated treatment that covers the principles and procedures related to the processing of reservoir fluids for the separation, handling, treatment, and production of quality petroleum oil and gas products. With five new chapters, this second edition covers additional subjects, in particular natural gas, economics and profitability, oil field chemicals, and piping and pumps. The book also contains worked-out examples and case studies from a variety of oil field operations.

Innovation, Industrial Dynamics and Structural Transformation - Uwe Cantner 2007-03-08

This book provides an account of work in the Schumpeterian and evolutionary tradition of industrial dynamics and the evolution of industries. It is shown that over time industries evolve and change their structure. In this dynamic process, change is affected and sometimes constrained by many factors, including knowledge and technologies, the capabilities and incentives of actors, new products and processes, and institutions.

Shared Earth Modeling - Michel Perrin 2013

Over the last two decades, earth modeling has become a major investigative tool for evaluating the potential of hydrocarbon reservoirs. Earth modelling must now face new challenges since petroleum exploration no longer consists in only investigating newly identified resources, but also in re-evaluating the potential of previously investigated reservoirs in the light of new prospecting data and of revised interpretations. Earth models incorporate a variety of different interpretations made on various types of data at successive steps of the modeling process. However, current modeling procedures provide no way to link a range of data and interpretations with a final earth model. For this reason, sharing and exchanging information about the model building process is at present a major difficulty. Recently, the term "Shared Earth Modeling" has been used for expressing the idea that earth models should be built in such a way that experts and end users can have access, at any time, to all the information incorporated into the model. This information does not only concern the data, but also the knowledge that geoscientists produce by interpreting these data. Accordingly, practical solutions must be studied for operating a knowledge-driven approach of Shared Earth Modeling. This is the goal of this book. This study of earth subsurface modeling is intended for several categories of readers. It concerns in the first place geologists, engineers and managers involved in the study and evaluation of subsurface reservoirs and hydrocarbon exploration. Relying on recent progress in various fields of computer sciences, the authors present innovative solutions for solving the critical issue of knowledge exchange at key steps of the modeling process. This book will also be of interest to

researchers in computer science and, more generally, to engineers, researchers and students who wish to apply advanced knowledge-based techniques to complex engineering problems. Contents : Part I. Earth Models. 1. Earth models as subsurface representations. 2. Earth models for underground resource exploration and estimation. 3. Earth models used in petroleum industry: current practice and future challenges. Part II. Knowledge oriented solutions. 4. Knowledge based approach of a data intensive problem: seismic interpretation. 5. Individual surface representations and optimization. 6. Geological surface assemblage. 7. 3D Meshes for structural, stratigraphy and reservoir frameworks. 8. The data extension issue: geological constraints applied in geostatistical processes. Part III. Knowledge formalization. 9. Ontologies and their use for geological knowledge formalization. 10. Ontologies for Interpreting geochronological relationships. 11. Building ontologies for analyzing data expressed in natural language. 12. Ontology-based rock description and interpretation. Part IV. Knowledge management & applications. 13. Ontology integration and management within data intensive engineering systems. 14. Earth modeling using web services. 15. Full scale example of a knowledge-based method for building and managing an earth model. Part V. Conclusion. Appendix. Glossary.

Oil and Gas Exploration and Production - Denis Babusiaux 2007

The steps that lead to the production of oil and gas are diverse, complex and costly. They are diverse because the detection of oil and gas involves input from many specialties, ranging from geology to reservoir engineering. They are complex, as shown by the development of the job of the petroleum architect, who coordinates all the operations. They are costly, as the investments for exploration and production represent more than half of all investments in the oil and gas sector. Moreover, exploration is a risky activity, both from the technical and financial viewpoint: only one well in five produces marketable oil. Meanwhile, the areas for exploration and production are spread throughout the world.

The Geopolitics of Energy - Jean-Pierre Favennec 2011

Rarely has the world's energy sector known such a complicated and fragile environment as that being experienced in 2011. Energy demand is

increasing rapidly because of growth in the developing countries. It is largely met by fossil fuels : oil, natural gas and coal, and also by hydraulic and nuclear power. The use of all these forms of energy now gives rise to controversy. A year after the uncontrollable oil leaks from the Macondo well in the Gulf of Mexico, the consequences of the accident are still being debated. The development of shale gas, currently the source of half natural gas production in the United States, meets strong opposition in a number of European countries. Even more serious, the accident at Fukushima has put into question the future development of nuclear power, particularly in Europe but also in the USA. There is considerable criticism of the use of coal, which is the source for most of the energy needs in China and a number of developing countries, because of its emissions of CO₂ and other pollutants. Even traditional biomass, whose use leads to deforestation and to respiratory diseases, and the development of hydraulic power are the subject of debate. How should one judge between these different energies ? How can decisions be taken between reducing consumption and increasing production ? What is the future for new renewable energies ? These are the issues at stake on the energy sector. This book appears just at the right time to provide clear and well documented replies to the questions that all of us, as energy users, are posing. How are the different forms of energy produced ? What does the future hold for them ? Who are the players active in the energy scene ? What are the supply constraints ? What is the impact of the strong growth in India and China on energy resources ? The book is in two parts. The first sets out the major characteristics of the energy sector. The second provides an analysis of the global energy issues region by region and details the geopolitical aspects. This work is well illustrated and accessible to all, as it does not require any specific prior knowledge. It will particularly interest readers seeking a global perspective of a sector that is fundamental both to our economy and also for our international policies.

Bibliography on the World's Subsea Mineral Resources and Related Geological and Geophysical Studies (1960-1972) - Frank F. H Wang 1974

Drilling - Jean-Paul Nguyen 1996

Corporate Investment Decisions and Economic Analysis - Denis Babusiaux 2005

The aim of this book is to help readers assimilate the concepts and methods for investment decision and project evaluation. It offers a wide range of exercises, problems and case studies taken from business, which are the fruit of many years of teaching, consulting and research. Some are direct application of basics, others require a higher degree of reflection for more complex applications. Our approach borrows elements from microeconomics, engineering economics and finance theory. This book is suited to both professionals and students who seek to master capital budgeting techniques. A review of essential points is proposed at the beginning of each chapter and key methodological elements are recalled in the solutions.

Handbook of Oil Politics - Robert E. Looney 2012-01-25

These days, one would have a difficult time picking up a newspaper, or watching a newscast that did not have a lead story dealing with some aspect of oil. From instability in the Middle East, to stock market crashes and concerns over the health of the world economy, to wars that seem to break out unexpectedly around the world, to discussions of global warming, and even speculation over the fate of mankind, oil is usually lurking somewhere in the background. To many, oil markets and their linkages to a whole spectrum of events remain something of a mystery. Unfortunately, most of the easily obtained information on oil is deeply flawed. Whole web-conspiracy sites depict ruthless insiders and reckless dictators manipulating energy markets at will. The 30 essays in this volume, written by the leading experts in the field, attempt to set the record straight. While their assessments may lack the sensationalism of many popular pundits, serious readers will find their insights invaluable in the years to come in providing a framework for understanding many of the events of the day. The volume is divided into sections. Part I provides a broad overview of the political dimensions underlying the supply of oil. Some of the key questions addressed include: is the world running out of

oil? And if so, is the cause physical scarcity or political/policy failure? Why are many of the oil-producing countries in the developing world so unstable? Can oil markets be made to provide more stability to the world system? Part II examines some of the political responses to oil-related developments. Here, the key questions concern the role of the political process in the development of alternative sources of energy. The various means through which countries approach their energy security is assessed, as is the problem of climate change. The section ends with the provocative question, do governments really need to go to war for oil? Oil production, energy markets, and the political environment produce distinct regional patterns. Part III examines oil and political power in Africa, Latin America, the Middle East and South-East Asia. Part IV expands some of the main regional themes through a series of case studies on specific countries: Iraq, Iran, Saudi Arabia, Egypt, Russia and Brazil. A final section looks to the future: will the oil curse continue for many countries? How will the growth and expansion of China affect oil prices and availabilities? Will oil-based sovereign wealth funds contribute to global stability or will they create increased political tensions between consuming and producing countries? Will volatile oil markets undermine the US dollar as well as the global financial system? Perhaps appropriately, the volume ends with an assessment of the future of oil in a carbon constrained world. All in all, the essays in this volume cover the whole spectrum of the politics of oil. Hopefully they will help shed light on this vital, yet still often misunderstood topic. The book does not represent any particular political or ideological position. Instead, each author has sought to objectively seek a deeper understanding as to the complexity and subtlety of forces that have all too often eluded policymakers around the world.

Integrated Reservoir Stu... - Luca Consentino 2001

Port Business - Jürgen Sorgenfrei 2018-09-24

Port Business is essential reading for all those with an interest in trade and transportation and the role of ports in the global supply chain. It discusses the various types of ports in existence, identifies the major

ports per category, analyzes what the key business drivers are, describes their governance, how they are managed, which trends influence them, and what kind of impact they have on supply chains. Dr. Jürgen Sorgenfrei uses his significant consulting and project development experience within the international ports, shipping, rail & logistics sector, and in global economics, trade, analytics, and forecasting as well as in intermodal hinterland transport to provide this comprehensive overview of port management. The book is a combination of a strong background in principles and practical knowledge and is an indispensable resource for those interested in maritime economics. .

Chemical Engineering Design - Gavin Towler 2012-01-25

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be

used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for

latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors