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Petroleum Geosciences: Indian Contexts - Soumyajit Mukherjee 2015
This book incorporates original and review articles on several aspects of petroleum geosciences from Indian terrains, both onshore and offshore, and includes diverse geological (tectonic, sedimentological, organic geochemical, paleontological, stratigraphic, modelling and various others), geophysical methods and policy aspects.

Seismic Amplitude Interpretation - Fred J. Hilterman 2001

Addresses the methodology of an amplitude interpretation and the subsequent benefits and limitations expected in rock-property settings. Included are relationships between rock properties and geophysical observations, practical problems, field examples, general rules, and case histories.

Petro-physics and Rock Physics of Carbonate Reservoirs - Kumar Hemant Singh 2019-10-16

This book presents selected articles from the workshop on "Challenges in Petrophysical Evaluation and Rock Physics Modeling of Carbonate Reservoirs" held at IIT Bombay in November 2017. The articles included explore the challenges associated with using well-log data, core data analysis, and their integration in the qualitative and quantitative assessment of petrophysical and elastic properties in carbonate reservoirs. The book also discusses the recent trends and advances in the area of research and development of carbonate reservoir characterization, both in industry and academia. Further, it addresses the challenging concept of porosity partitioning, which has huge implications for exploration and development success in these complex reservoirs, enabling readers to understand the varying orders of deposition and diagenesis and also to model the flow and elastic properties.

An Elementary Course in Partial Differential Equations - T. Amaranath 2003

The long awaited second edition of this very successful textbook for graduate students covers the study of first and second order of Partial Differential Equations. New to this edition: Improved presentation Exercises and worked examples at the end of each chapter with solutions Also useful for students of Engineering and Physics

Microbial Energy Conversion - Zhenhong Yuan 2018-05-22

The book provides an overview on various microorganisms and their industrialization in energy conversion, such as ethanol fermentation, butanol fermentation, biogas fermentation and fossil energy conversion. It also covers microbial oil production, hydrogen production and electricity generation. The content is up to date and suits well for both researchers and industrial audiences.

Integrated Reservoir Studies for CO₂-Enhanced Oil Recovery and Sequestration - Shib Sankar Ganguli 2017-03-30

This book addresses the feasibility of CO₂-EOR and sequestration in a mature Indian oil field, pursuing for the first time a cross-disciplinary approach that combines the results from reservoir modeling and flow simulation, rock physics modeling, geomechanics, and time-lapse (4D) seismic monitoring study. The key findings presented indicate that the field under study holds great potential for enhanced oil recovery (EOR) and subsequent CO₂ storage. Experts around the globe argue that storing CO₂ by means of enhanced oil recovery (EOR) could support climate change mitigation by reducing the amount of CO₂ emissions in the atmosphere by ca. 20%. CO₂-EOR and sequestration is a cutting-edge and emerging field of research in India, and there is an urgent need to assess Indian hydrocarbon reservoirs for the feasibility of CO₂-EOR and storage. Combining the fundamentals of the technique with concrete examples, the book is essential reading for all researchers, students and oil & gas professionals who want to fully understand CO₂-EOR and its geologic sequestration process in mature oil fields.

Chemical Enhanced Oil Recovery - Patrizio Raffa 2019-07-22

The book covers the most recent scientific literature in chemical enhanced oil recovery. After introducing the subject of EOR, detailed advances in polymer flooding are presented, and is exemplified in terms

of both experimental work and mathematical simulations. Also, employing the emerging technique of nanotechnology to boost the performance of existing chemical enhanced oil recovery processes is described.

Petroleum Engineering Handbook - Larry W. Lake 2006

Volume I, General Engineering, includes chapters on mathematics, fluid properties (fluid sampling techniques; properties and correlations of oil, gas, condensate, and water; hydrocarbon phase behavior and phase diagrams for hydrocarbon systems; the phase behavior of water/hydrocarbon systems; and the properties of waxes, asphaltenes, and crude oil emulsions), rock properties (bulk rock properties, permeability, relative permeability, and capillary pressure), the economic and regulatory environment, and the role of fossil energy in the 21st century energy mix (from SPE Website).

Catastrophic Risks and Insurance - Organisation for Economic Co-operation and Development 2005

This volume is the eighth of a series devoted to major policy issues in insurance, and sets out the proceedings of a conference, held in Paris in November 2004, to discuss options for dealing with losses caused by large-scale disasters. It contains a selection of papers and reports which focus on three key issues: the insurability of catastrophic risks; the extent to which financial markets can help address the risks of both natural disasters and terrorism; and the role of governments and public-private partnerships in the management of such risks.

The Rock Physics Handbook - Gary Mavko 2020-01-09

Brings together widely scattered theoretical and laboratory rock physics relations critical for modelling and interpretation of geophysical data.
The Coalfields of India - Valentine Ball 1913

3C Seismic and VSP: Converted waves and vector wavefield applications - James Gaiser 2016-06-30

3C seismic applications provide enhanced rock property characterization of the reservoir that can complement P-wave methods. Continued interest in converted P- to S-waves (PS-waves) and vertical seismic profiles (VSPs) has resulted in the steady development of advanced vector wavefield techniques. PS-wave images along with VSP data can be used to help P-wave interpretation of structure in gas obscured zones, of elastic and fluid properties for lithology discrimination from S-wave impedance and density inversion in unconventional reservoirs, and of fracture characterization and stress monitoring from S-wave birefringence (splitting) analysis. The book, which accompanies the 2016 SEG Distinguished Instructor Short Course, presents an overview of 3C seismic theory and practical application: from fundamentals of PS-waves and VSPs, through to acquisition and processing including interpretation techniques. The emphasis is on unique aspects of vector wavefields, anisotropy, and the important relationships that unify S-waves and P-waves. Various applications and case studies demonstrate image benefits from PS-waves, elastic properties and fluid discrimination from joint inversion of amplitude variations with offset/angle (AVO/A), and VSP methods for anisotropic velocity model building and improved reservoir imaging. The book will be of interest to geophysicists, geologists, and engineers, especially those involved with or considering the use of AVO/A inversion, fracture/stress characterization analyses, or interpretation in gas-obscured reservoirs.

Origin and Evaluation of Formation Pressures - Dr. Bhagwan Sahay 1988
On reservoir pressure in oil and gas wells.

Mechanics of Porous Continua - Olivier Coussy 1995-12-05

This book provides a unified and systematic continuum approach for engineers and applied physicists working on the modelling of porous media. Self-contained, it sets out—from a macroscopic point of view—the main concepts and results of deformable porous media subject to the flow of one or several fluids. The theory presented includes developments in the areas of thermodynamics, poroelastoplasticity, poroviscoplasticity, wave propagation and surfaces of discontinuity,

boundary value problems and numerical methods, as well as chemico-mechanical couplings. It can be used for numerous diversified applications in geophysics, civil engineering, biomechanics, material science, etc.

The Australian Continent - Brian Kennett 2018-08-29

The Australian Continent: A Geophysical Synthesis is designed to provide a summary of the character of the Australian continent through the extensive information available at the continental scale, as a contribution to the understanding of Australia's lithospheric architecture and its evolution. The results build on the extensive databases assembled at Geoscience Australia, particularly for potential fields, supplemented by the full range of seismological information, mostly from The Australian National University. To aid in cross comparison of results from different disciplines, information is presented with a common projection and scales.

Enriched Methane - Marcello De Falco 2015-10-28

This book brings together recent research from across the world on enriched methane, and examines the production, distribution and use of this resource in internal combustion engines and gas turbines. It aims to provide readers with an extensive account of potential technological breakthroughs which have the capacity to revolutionize energy systems. Enriched methane, a gas mixture composed by methane and hydrogen (10-30%vol), constitutes the first realistic step towards the application of hydrogen as an energy vector. It provides strong benefits in terms of emissions reduction, that is -11% of CO₂, eq emission with the combustion of a 30%vol H₂ mixture, if hydrogen is produced from renewable energy sources. Enriched methane offers the following advantages: • it can be produced at competitive costs; • it can be distributed by means of the medium pressure natural gas grid; • it can be stored in traditional natural gas storage systems; • it can feed natural gas internal combustion engine, improving conversion efficiency. /divdivThis book is intended for academics in chemical engineering and energy production, distribution and storage. It is also intended for energy producers, engineering companies and R&D organizations./divdivbr

14th International Conference on Theory and Application of Fuzzy Systems and Soft Computing - ICAFS-2020 - Rafik A. Aliev

2021-01-04

This book presents the proceedings of the 14th International Conference on Applications of Fuzzy Systems, Soft Computing, and Artificial Intelligence Tools, ICAFS-2020, held in Budva, Montenegro, on August 27-28, 2020. It includes contributions from diverse areas of fuzzy systems, soft computing, AI tools such as uncertain computation, decision making under imperfect information, deep learning and others. The topics of the papers include theory and application of soft computing, neuro-fuzzy technology, intelligent control, deep learning-machine learning, fuzzy logic in data analytics, evolutionary computing, fuzzy logic and artificial intelligence in engineering, social sciences, business, economics, material sciences and others.

Offset-dependent Reflectivity - John P. Castagna 1993

Recognizing the need for education and further research in AVO, the editors have compiled an all-encompassing treatment of this versatile technology. In addition to providing a general introduction to the subject and a review of the current state of the art, this unique volume provides useful reference materials and data plus original contributions at the leading edge of AVO technologies.

The Structural Geology Contribution to the Africa-Eurasia Geology: Basement and Reservoir Structure, Ore Mineralisation and Tectonic Modelling - Federico Rossetti 2018-12-29

This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book is of interest to all researchers in the fields of Structural Geology, Stratigraphy, Ore Deposits, Regional Tectonics and Tectonic Modelling. This volume offers an overview of multidisciplinary studies on the broader Africa-Eurasia geology. Main topics include: 1. Basement Geology 2. Fluid-rock interaction, hydrothermalism and ore deposits 3. Reservoir geology, structure and stratigraphy 4. Mediterranean Tectonics 5. The Alpine-Himalayan convergence zone 6. Tectonic Modelling

Seismic Diffraction - Tijmen Jan Moser 2016-06-30

The use of diffraction imaging to complement the seismic reflection method is rapidly gaining momentum in the oil and gas industry. As the industry moves toward exploiting smaller and more complex conventional reservoirs and extensive new unconventional resource plays, the application of the seismic diffraction method to image sub-

wavelength features such as small-scale faults, fractures and stratigraphic pinchouts is expected to increase dramatically over the next few years. "Seismic Diffraction" covers seismic diffraction theory, modeling, observation, and imaging. Papers and discussion include an overview of seismic diffractions, including classic papers which introduced the potential of diffraction phenomena in seismic processing; papers on the forward modeling of seismic diffractions, with an emphasis on the theoretical principles; papers which describe techniques for diffraction mathematical modeling as well as laboratory experiments for the physical modeling of diffractions; key papers dealing with the observation of seismic diffractions, in near-surface-, reservoir-, as well as crustal studies; and key papers on diffraction imaging.

Origin and Prediction of Abnormal Formation Pressures - V.A.

Serebryakov 2002-05-24

Knowledge of the presence of abnormally-high pressure zones (AHFP) prior to drilling into them can prevent considerable economic losses and, possibly, save human lives. The various origins (undercompaction, tectonics, etc.) of AHFPs are discussed, followed by the description of predictive techniques in clastic, carbonate and salt-bearing formations. In addition to the well-logging predictive techniques, the authors discuss smectite-illite transformation and the chemistry of interstitial solutions. Other topics covered include (a) abnormally low formation pressures and subsidence, and (b) mathematical modelling. Loss of potential production may result if AHFPs are not properly identified and evaluated. Many hydrocarbon-bearing formations with AHFPs are erroneously "condemned". This book is of interest to engineers and geologists involved in the (a) evaluation, (b) drilling in, (c) completing, and (d) producing from hydrocarbon reservoirs with AHFPs.

Mechanics and Physics of Porous Solids - Olivier Coussy 2011-06-28

Mechanics and Physics of Porous Solids addresses the mechanics and physics of deformable porous materials whose porous space is filled by one or several fluid mixtures interacting with the solid matrix. Coussy uses the language of thermodynamics to frame the discussion of this topic and bridge the gap between physicists and engineers, and organises the material in such a way that individual phases are explored, followed by coupled problems of increasing complexity. This structure allows the reader to build a solid understanding of the physical processes occurring in the fluids and then porous solids. Mechanics and Physics of Porous Solids offers a critical reference on the physics of multiphase porous materials - key reading for engineers and researchers in structural and material engineering, concrete, wood and materials science, rock and soil mechanics, mining and oil prospecting, biomechanics.

Petroleum Geoscience - Knut Bjørlykke 2015-05-19

This comprehensive textbook presents an overview of petroleum geoscience for geologists active in the petroleum industry, while also offering a useful guide for students interested in environmental geology, engineering geology and other aspects of sedimentary geology. In this second edition, new chapters have been added and others expanded, covering geophysical methods in general and electromagnetic exploration methods in particular, as well as reservoir modeling and production, unconventional resources and practical petroleum exploration.

Photovoltaic Module Technology - Harry Wirth 2020-11-23

How to get the best out of solar cells, when aiming for efficiency, power, reliability, and cost? After decades of R&D focus on the cell, recently the module has entered the stage and demonstrated huge innovation potential. Photovoltaic Module Technology provides unique insights into state-of-the-art materials, design strategies, manufacturing techniques, and characterization methods of wafer-based photovoltaic modules. Many properties of solar cells are highly relevant for module integration. They set the starting point for understanding the implications of different interconnection and encapsulation technologies. Module design and the choice of materials are described for both state-of-the-art and advanced module technology, with special attention attributed to the key processes of module assembly.

Geomechanics and Geology - J.P. Turner 2017-09-19

Geomechanics investigates the origin, magnitude and deformational consequences of stresses in the crust. In recent years awareness of geomechanical processes has been heightened by societal debates on fracking, human-induced seismicity, natural geohazards and safety issues with respect to petroleum exploration drilling, carbon sequestration and radioactive waste disposal. This volume explores the common ground linking geomechanics with inter alia economic and petroleum geology, structural geology, petrophysics, seismology, geotechnics, reservoir

engineering and production technology. Geomechanics is a rapidly developing field that brings together a broad range of subsurface professionals seeking to use their expertise to solve current challenges in applied and fundamental geoscience. A rich diversity of case studies herein showcase applications of geomechanics to hydrocarbon exploration and field development, natural and artificial geohazards, reservoir stimulation, contemporary tectonics and subsurface fluid flow. These papers provide a representative snapshot of the exciting state of geomechanics and establish it firmly as a flourishing subdiscipline of geology that merits broadest exposure across the academic and corporate geosciences.

Polysaccharide Based Graft Copolymers - Susheel Kalia 2013-05-23

Renowned experts give all essential aspects of the techniques and applications of graft copolymers based on polysaccharides. Polysaccharides are the most abundant natural organic materials and polysaccharide based graft copolymers are of great importance and widely used in various fields. Natural polysaccharides have recently received more attention due to their advantages over synthetic polymers by being non-toxic, biodegradable and available at low cost. Modification of polysaccharides through graft copolymerization improves the properties of polysaccharides. Grafting is known to improve the characteristic properties of the backbones. Such properties include water repellency, thermal stability, flame resistance, dye-ability and resistance towards acid-base attack and abrasion. Polysaccharides and their graft copolymers find extensive applications in diversified fields. Applications of modified polysaccharides include drug delivery devices, controlled release of fungicides, selective water absorption from oil-water emulsions, purification of water etc.

Mine Environment and Ventilation - D.C. Panigrahi 2001-01-01

This work features presentations by international experts on mine environment and ventilation. Topics covered include analysis and design of ventilation systems, coal bed methane and gas modelling, dust generation and control, and heat flow, fan and face ventilation.

Publications Index, 1970-1987 - Australian Society of Exploration Geophysicists 1988

Fundamentals of Petrophysics - Shenglai Yang 2017-08-09

In this book, the fundamental knowledge involved in petroleum & gas development engineering, such as physical and chemical phenomena, physical processes and the relationship between physical factors is covered. It is arranged into 3 Sections. Section 1 including chapter 1-4 is to introduce the properties of fluids (gases, hydrocarbon liquids, and aqueous solutions). Section II including Chapter 5-7 is to introduce the porous rock properties of reservoir rocks. Section III including Chapter 8-10 is to introduce the mechanism of multiphase fluid flow in porous medium. The book is written primarily to serve professionals working in the petroleum engineering field. It can also be used as reference book for postgraduate and undergraduate students as well for the related oil fields in petroleum geology, oil production engineering, reservoir engineering and enhancing oil recovery.

Sustainable Process Engineering - Gyorgy Szekely 2021-03-08

Sustainable process engineering is a methodology to design new and redesign existing processes that follow the principles of green chemistry and green engineering, and ultimately contribute to a sustainable development. The newest achievements of chemical engineering, opened new opportunities to design more efficient, safe, compact and environmentally benign chemical processes. The book provides a guide to sustainable process design applicable in various industrial fields. • Discusses the topic from a wide angle: chemistry, materials, processes, and equipment. • Includes state-of-the-art research achievements that are yet to be industrially implemented. • Transfers knowledge between chemists and chemical engineers. • QR codes direct the readers to animations, short videos, magazines, and blogs on specific topics • Worked examples deepen the understanding of the sustainable assessment of chemical manufacturing processes

ICIPEG 2014 - Mariyamni Awang 2015-03-20

This book presents the proceedings of the 3rd International Conference on Integrated Petroleum Engineering and Geosciences 2014 (ICIPEG2014). Topics covered on the petroleum engineering side include reservoir modeling and simulation, enhanced oil recovery, unconventional oil and gas reservoirs, production and operation. Similarly geoscience presentations cover diverse areas in geology, geophysics palaeontology and geochemistry. The selected papers focus on current interests in petroleum engineering and geoscience. This book will be a bridge between engineers, geoscientists, academicians and

industry.

Wind Energy Harvesting - Ravi Kishore 2018-04-23

This book provides the fundamental concepts required for the development of an efficient small-scale wind turbine. For centuries, engineers and scientists have used wind turbines of all shapes and sizes to harvest wind energy. Large-scale wind turbines have been successful at producing great amounts of power when deployed in sites with vast, open space, such as in fields or in offshore waters. For environments with limited space, such as dense urban environments, small-scale wind turbines are an attractive alternative for taking advantage of the ubiquity of wind. However, many of today's tools for aerodynamic design and analysis were originally developed for large-scale turbines and do not scale down to these smaller devices. Arranged in a systematic and comprehensive manner, complete with supporting examples, *Wind Energy Harvesting: Micro- To Small-Scale Turbines* is a useful reference for undergraduate and graduate level classes on energy harvesting, sustainable energy, and fluid dynamics, and an introduction to the field for non-technical readers.

Fractal Models in Exploration Geophysics - V.P. Dimri 2012-10-22

Researchers in the field of exploration geophysics have developed new methods for the acquisition, processing and interpretation of gravity and magnetic data, based on detailed investigations of bore wells around the globe. *Fractal Models in Exploration Geophysics* describes fractal-based models for characterizing these complex subsurface geological structures. The authors introduce the inverse problem using a fractal approach which they then develop with the implementation of a global optimization algorithm for seismic data: very fast simulated annealing (VFSA). This approach provides high-resolution inverse modeling results—particularly useful for reservoir characterization. Serves as a valuable resource for researchers studying the application of fractals in exploration, and for practitioners directly applying field data for geo-modeling. Discusses the basic principles and practical applications of time-lapse seismic reservoir monitoring technology - application rapidly advancing topic. Provides the fundamentals for those interested in reservoir geophysics and reservoir simulation study. Demonstrates an example of reservoir simulation for enhanced oil recovery using CO₂ injection

Sediment Compaction and Applications in Petroleum Geoscience - Troyee Dasgupta 2019-04-11

This book discusses how sediments compact with depth and applications of the compaction trends. Porosity reduction in sediment conveniently indicates the degree of sediments compacted after deposition. Published empirical curves- the compaction curves- are depth-wise porosity variation through which change in pore spaces from sediment surface to deeper depths e.g. up to 6 km can be delineated. Porosity is derived from well logs. Compaction curves, referred to as the Normal Porosity Profile of shales, sandstones and shale bearing sandstones of different models are reviewed along with the different mechanical and chemical compaction processes. These compaction models reveals how porosity reduces depth-wise and the probable reason for anomalous zones. Deviation from these normal compaction trends may indicate abnormal pressure scenarios: either over- or under pressure. We highlight global examples of abnormal pressure scenarios along with the different primary- and secondary mechanisms. Well logs and cores being the direct measurements of porosity, well log is the only cost-effective way to determine porosity of subsurface rocks. Certain well logs can detect overpressure and the preference of one log above the other helps reduce the uncertainty. Apart from delineation of under-compacted zones by comparing the modeled- with the actual compaction, porosity data can also estimate erosion.

Hydroprocessing of Heavy Oils and Residua - Jorge Ancheyta 2007-05-08

Many oil refineries employ hydroprocessing for removing sulfur and other impurities from petroleum feedstocks. Capable of handling heavier feedstocks than other refining techniques, hydroprocessing enables refineries to produce higher quality products from unconventional — and formerly wasted — sources. *Hydroprocessing of Heavy Oils and Residua* illustrates how to obtain maximum yields of high-value products from heavy oils and residue using hydroprocessing technologies. While most resources on hydroprocessing concentrate on gas oil and lower boiling products, this book details the chemistry involved and the process modifications required for the hydroprocessing of heavy crude oils and residua. Emphasizing the use of effective catalysts to ensure cleaner and more efficient industrial fuel processes, the book presents key principles of heterogeneous catalyst preparation, catalyst loading, and reactor systems. It explains how to evaluate and account for catalysts, reactor

type, process variables, feedstock type, and feedstock composition in the design of hydroprocessing operations. The text concludes with examples of commercial processes and discusses methods of hydrogen production. To meet the growing demand for transportation fuels and fuel oil, modern oil refineries must find ways to produce high quality fuel products from increasingly heavy feedstocks. Hydroprocessing of Heavy Oils and Residua contains the fundamental concepts, technologies, and process modifications refineries need to adapt current hydroprocessing technologies for processing heavier feedstocks.

I. Tungsten Hexabromide. II. Tungsten Complexes ... - Harry Beckerman 1918

Gas Engineering - James G. Speight 2021-09-20

Volume 1 deals with the origins of process gases and describes recovery, properties and composition. It covers as well the shale gas, the production from hydrocarbon rich deep shale formations, being one of the most quickly expanding trends in onshore domestic gas exploration. Vol. 2: Composition and Processing of Gas Streams. Vol. 3: Uses of Gas and Effects.

Inversion of Geophysical Data - Laurence R. Lines 1988

Petroleum Rock Mechanics - Bernt Aadnoy 2019-06-15

Petroleum Rock Mechanics: Drilling Operations and Well Design, Second Edition, keeps petroleum and drilling engineers centrally focused on the basic fundamentals surrounding geomechanics, while also keeping them up-to-speed on the latest issues and practical problems. Updated with new chapters on operations surrounding shale oil, shale gas, and

hydraulic fracturing, and with new sections on in-situ stress, drilling design of optimal mud weight, and wellbore instability analysis, this book is an ideal resource. By creating a link between theory with practical problems, this updated edition continues to provide the most recent research and fundamentals critical to today's drilling operations. Helps readers grasp the techniques needed to analyze and solve drilling challenges, in particular wellbore instability analysis Teaches rock mechanic fundamentals and presents new concepts surrounding sand production and hydraulic fracturing operations Includes new case studies and sample problems to practice

The Autotrophic Biorefinery - Robert Kourist 2021-10-25

The depletion of fossil resources and an ever-growing human population create an increasing demand for the development of sustainable processes for the utilization of renewable resources. As autotrophic microorganisms offer numerous metabolic pathways for the fixation of carbon dioxide and the metabolic utilization of light, electricity and inorganic energy donors, they are expected to play a pivotal role in an emerging carbon neutral society. This text-book presents the metabolic principles of autotrophy and current efforts for their utilization in biotechnology, including photoautotrophic, chemolithoautotrophic and electroautotrophic organisms. It outlines how modern molecular biology and process engineering create technologies that allow to use industrial off-gases and inorganic energy for the synthesis of bio-based plastics, materials and other chemical products. The text-book is ideally suited for students in advanced graduate and master courses and offers a reference for PhD students, engineers, chemists, biologists and all with an interests in biotechnology and renewable resources.