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KOCH HOOPER

The Outrageous Inside Story of the New Billionaire Wildcatters Editions TECHNIP

The Second Edition also benefits from new artwork that clearly illustrates complex concepts. New to the Second Edition: New Chapter: 15, "Geophysical Imaging," by Frederick Cook Within Chapters 21 and 22, four new essays on "Regional Perspectives" discuss the European Alps, the Altoids, the Appalachians, and the Cascadia Wedge. New and updated art for more informative illustration of concepts. The Second Edition now has 570 black & white figures.

Paleobiodiversity and Tectono-Sedimentary Records in the Mediterranean Tethys and Related Eastern Areas Geological Society Publishing House

The development of naturally fractured reservoirs, especially shale gas and tight oil reservoirs, exploded in recent years due to advanced drilling and fracturing techniques. However, complex fracture geometries such as irregular fracture networks and non-planar fractures are often generated, especially in the presence of natural fractures. Accurate modelling of production from reservoirs with such geometries is challenging. Therefore, Embedded Discrete Fracture Modeling and Application in Reservoir Simulation demonstrates how production from reservoirs with complex fracture geometries can be modelled efficiently and effectively. This volume presents a conventional numerical model to handle simple and complex fractures using local grid refinement (LGR) and unstructured gridding. Moreover, it introduces an Embedded Discrete Fracture Model (EDFM) to efficiently deal with complex fractures by dividing the fractures into segments using matrix cell boundaries and creating non-neighboring connections (NNCs). A basic EDFM approach using Cartesian grids and advanced EDFM approach using Corner point and unstructured grids will be covered. Embedded Discrete Fracture Modeling and Application in Reservoir Simulation is an essential reference for anyone interested in performing reservoir simulation of conventional and unconventional fractured reservoirs. Highlights the current state-of-the-art in reservoir simulation of unconventional reservoirs Offers understanding of the impacts of key reservoir properties and complex fractures on well performance Provides case studies to show how to use the EDFM method for different needs

Geology and Hydrocarbon Resources, AAPG Memoir 84 Gulf Professional Publishing

An overview of the geophysical techniques and analysis methods for monitoring subsurface carbon dioxide storage for researchers and industry practitioners.

Mississippian Reservoirs of the Midcontinent John Wiley & Sons 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.

Reservoir Geomechanics John Wiley & Sons

Structure from Motion with Multi View Stereo provides hyperscale landform models using images acquired from standard compact cameras and a network of ground control points. The technique is not limited in temporal frequency and can provide point cloud data comparable in density and accuracy to those generated by terrestrial and airborne laser scanning at a fraction of the cost. It therefore offers exciting opportunities to characterise surface topography in unprecedented detail and, with multi-temporal data, to detect elevation, position and volumetric changes that are symptomatic of earth surface processes. This book firstly places Structure from Motion in the context of other digital

surveying methods and details the Structure from Motion workflow including available software packages and assessments of uncertainty and accuracy. It then critically reviews current usage of Structure from Motion in the geosciences, provides a synthesis of recent validation studies and looks to the future by highlighting opportunities arising from developments in allied disciplines. This book will appeal to academics, students and industry professionals because it balances technical knowledge of the Structure from Motion workflow with practical guidelines for image acquisition, image processing and data quality assessment and includes case studies that have been contributed by experts from around the world.

Geological Applications of Wireline Logs Springer

Completions are the conduit between hydrocarbon reservoirs and surface facilities. They are a fundamental part of any hydrocarbon field development project. They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions. Issues include: connection with the reservoir rock, avoiding sand production, selecting the correct interval, pumps and other forms of artificial lift, safety and integrity, equipment selection and installation and future well interventions. * Course book based on course well completion design by TRACS International * Unique in its field: Coverage of offshore, subsea, and landbased completions in all of the major hydrocarbon basins of the world. * Full colour *Deep Shale Oil and Gas* Cambridge University Press

This edited volume contains the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The volume shares the latest results from paleontological, biostratigraphic and sedimentological studies by experienced researchers mainly from research institutes in the Mediterranean and Middle East. Main topics include: paleontology, biostratigraphy, sedimentology, paleoclimatology and geomorphology. Some new insights are given on paleobiodiversity and major biological tools for biostratigraphy, patterns, mechanisms and processes of meso-cenozoic sedimentation in the Mediterranean and Middle East. In particular, case studies are included to highlight the major controlling factors of Tethyan biosphere-geosphere interactions as inferred from the Mediterranean and Middle East regions. The book is of interest to all researchers in the fields of different disciplines involved in the sedimentary geology.

Geophysics and Geosequestration Wiley-IEEE Press

This book on well test analysis, and the use of advanced interpretation models is volume 3 in the series Handbook of Petroleum Exploration and Production. The chapters in the book are: Principles of Transient Testing, Analysis Methods, Wellbore Conditions, Effect of Reservoir Heterogeneities on Well Responses, Effect of Reservoir Boundaries on Well Responses, Multiple Well Testing, Application to Gas Reservoirs, Application to Multiphase Reservoirs, Special Tests, Practical Aspects of Well Test Interpretation.

Redshift 5 Penguin

Provides a quantitative introduction to the physics, application, interpretation, and hazard aspects of fluid-induced seismicity, with many real data examples.

Well Test Analysis Processing of Heavy Crude Oils Challenges and Opportunities Reservoir Geomechanics

Advances in Geophysics, Volume 61 - Machine Learning and Artificial Intelligence in Geosciences, the latest release in this highly-respected publication in the field of geophysics, contains new chapters on a variety of topics, including a historical review on the development of machine learning, machine learning to investigate fault rupture on various scales, a review on machine learning techniques to describe fractured media, signal augmentation to improve the generalization of deep neural networks, deep generator priors for Bayesian seismic inversion, as well as a review on homogenization for seismology, and more. Provides high-level reviews of the latest innovations in geophysics

Written by recognized experts in the field Presents an essential publication for researchers in all fields of geophysics

Submerged Prehistory Gulf Professional Publishing

Natural gas represents nearly one-quarter of the world's energy resources. More than half of American homes rely on it as their main heating fuel. It serves as the raw material necessary in everyday paints, plastics, medicines and explosives. It produces the cleanest of all fossil fuels. It is natural gas—and everybody should acquire a basic understanding of it. This valuable easy-to-use reference supplies all the basics that every person should know about the natural gas industry. Introductory engineers, managers and analysts will benefit from this informative, practical handbook. Natural gas remains a vital component of all energy sources, and with an increasing demand for information on this

useful energy source, Natural Gas: A Basic Handbook is an essential tool for anyone involved in the energy industry.

The Frackers Springer

Engineers and geologists in the petroleum industry will find Petroleum Related Rock Mechanics, 2e, a powerful resource in providing a basis of rock mechanical knowledge - a knowledge which can greatly assist in the understanding of field behavior, design of test programs and the design of field operations. Not only does this text give an introduction to applications of rock mechanics within the petroleum industry, it has a strong focus on basics, drilling, production and reservoir engineering. Assessment of rock mechanical parameters is covered in depth, as is acoustic wave propagation in rocks, with possible link to 4D seismics as well as log interpretation. Learn the basic principles behind rock mechanics from leading academic and industry experts Quick reference and guide for engineers and geologists working in the field Keep informed and up to date on all the latest methods and fundamental concepts

An Introduction to Structural Geology and Tectonics Oxbow Books Limited

This book is the result of collaboration within the framework of the Third International Scientific School for Young Scientists held at the Ishlinskii Institute for Problems in Mechanics of Russian Academy of Sciences, 2017, November. The papers included describe studies on the dynamics of natural system - geosphere, hydrosphere, atmosphere—and their interactions, the human contribution to naturally occurring processes, laboratory modeling of earth and environment processes, and testing of new developed physical and mathematical models. The book particularly focuses on modeling in the field of oil and gas production as well as new alternative energy sources.

The Carpathians and Their Foreland Springer Science & Business Media

Famous for their size and elegance in flight, albatrosses are familiar to anyone who has travelled through the southern oceans, and are a flagship family of conservation concern. However, albatrosses are just one of several groups of 'pelagic' birds - those that visit land only to breed, and spend the rest of their lives far from the coast, soaring from ocean to ocean in a never-ending search for food. Mysterious and graceful, these birds can present a formidable identification challenge to even the most experienced birder. This book provides the answer - the first comprehensive guide to pelagic birds, the albatrosses, petrels, shearwaters, storm-petrels and diving petrels. A total of 46 spectacular colour plates highlight key ID criteria of the birds in flight, with close-ups of diagnostic regions of the plumage. The plates are accompanied by accurate distribution maps, while the sparkling text brings the world of these amazing birds to life. Several extremely rare species, such as Beck's Petrel, are illustrated for the first time, while the New Zealand Storm-petrel, rediscovered as recently as 2004, is also included. Sea-watchers all around the world will find this superb field guide indispensable. *Well Completion Design* Springer Science & Business Media 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.

Paleoamerican Odyssey Elsevier

Prepared by the Task Committee on Hydraulics of Wells of the Groundwater Hydrology Technical Committee of the Groundwater Council and Watershed Council of the Environmental and Water Resources Institute of ASCE. Hydraulics of Wells: Design Construction Testing and Maintenance of Water Well Systems provides comprehensive treatment of the engineering issues related to the development and management of economical supplies of groundwater. Groundwater is a vital resource in nearly all parts of the world. Because groundwater is typically of high quality and dependability this vital resource is used to supply drinking water in nearly all parts of the globe. Demand for groundwater is expected to increase as population expands and technology advances. Yet groundwater is not free from costs and

limitations including the construction and maintenance of wells and pumping equipment as well as storage and transmission infrastructure. Threats to well capacity and water quality rise from a variety of factors such as pollution overuse and drought. This Manual of Practice codifies existing practices in the water well industry in order to improve the identification development and management of groundwater resources in the future. Topics include: fundamentals of hydrogeology; efficiency of water well systems; design of water wells; construction development and testing; corrosion; incrustation; wellhead protection; and maintenance. Appendixes include a detailed example of a system design for a water well and sample technical specifications for drilling constructing and testing of water wells. MOP 127 guides engineers and designers through the process of planning designing installing maintaining and troubleshooting water-well systems. Managers administrators and water-well operators at all levels of government as well as in the private sector will find it an indispensable reference to water wells assets.

Concepts, Collaboration, and Right-Time Decisions Gulf Professional Publishing

This monograph on fractures, fracture networks, and fractured porous media provides a systematic treatment of their geometrical and transport properties for students and professionals in Geophysics, Materials Science, and Earth Sciences.

Challenges and Opportunities Amer Society of Civil Engineers

This updated printing of the leading text and reference in digital systems testing and testable design provides comprehensive, state-of-the-art coverage of the field. Included are extensive

discussions of test generation, fault modeling for classic and new technologies, simulation, fault simulation, design for testability, built-in self-test, and diagnosis. Complete with numerous problems, this book is a must-have for test engineers, ASIC and system designers, and CAD developers, and advanced engineering students will find this book an invaluable tool to keep current with recent changes in the field.

Intelligent Digital Oil and Gas Fields Geological Society Publishing House

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 compiles a wide range of topics addressing various issues by experienced researchers mainly from research institutes in the Mediterranean, MENA region, North America and Asia. Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards

Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing.

Environmental Software Systems. Computer Science for Environmental Protection Elsevier

Natural gas and crude oil production from hydrocarbon rich deep shale formations is one of the most quickly expanding trends in domestic oil and gas exploration. Vast new natural gas and oil resources are being discovered every year across North America and one of those new resources comes from the development of deep shale formations, typically located many thousands of feet below the surface of the Earth in tight, low permeability formations. Deep Shale Oil and Gas provides an introduction to shale gas resources as well as offer a basic understanding of the geomechanical properties of shale, the need for hydraulic fracturing, and an indication of shale gas processing. The book also examines the issues regarding the nature of shale gas development, the potential environmental impacts, and the ability of the current regulatory structure to deal with these issues. Deep Shale Oil and Gas delivers a useful reference that today's petroleum and natural gas engineer can use to make informed decisions about meeting and managing the challenges they may face in the development of these resources. Clarifies all the basic information needed to quickly understand today's deeper shale oil and gas industry, horizontal drilling, fracture fluids chemicals needed, and completions Addresses critical coverage on water treatment in shale, and important and evolving technology Practical handbook with real-world case shale plays discussed, especially the up-and-coming deeper areas of shale development