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Standard Methods of Geophysical Formation Evaluation - James K. Hallenburg 2020-02-03
These three works cover the entire field of formation evaluation, from basic concepts and theories, through standard methods used by the petroleum industry, on to new and exciting applications in environmental science and engineering, hydrogeology, and other fields. Designed to be used individually or as a set, these volumes represent the first comprehensive assessment of all exploration methodologies. No other books offer the breadth of information and range of applications available in this set.
Cased-Hole Log Analysis and Reservoir Performance Monitoring - Richard M.

Bateman 2014-11-22
This book addresses vital issues, such as the evaluation of shale gas reservoirs and their production. Topics include the cased-hole logging environment, reservoir fluid properties; flow regimes; temperature, noise, cement bond, and pulsed neutron logging; and casing inspection. Production logging charts and tables are included in the appendices. The work serves as a comprehensive reference for production engineers with upstream E&P companies, well logging service company employees, university students, and petroleum industry training professionals.

Petroleum Formation Evaluation Overview - Andi Aniansyah 2018-12-23
This book describe Formation Evaluation procedure such; Measure, Sample, and Test, MWD (measuring while drilling) & LWD (logging while drilling), determine rocks and fluid properties. And formation drilling data such The Drilling Rate, Bottoms UpCirculation, Oil and Gas Shows, The Cuttings, Core Sampling (Coring), and SWC (side wall coring) in common.This book also describe generally about Well Logging comprises well logging tools, Well logging operations, well log types, well logging methods, log interpretation such Quick-look methods, Quantitative interpretation, water and hydrocarbon saturation, pressure or sampling. In addition describe integration with seismic, Well deviation, Surveying, and Geosteering. Finally production tests types of production tests, DST (drill stem tests), WFT (wareline formation tests), IP (initial potential) test.

Applied Sedimentology - Richard C. Selley 2000-05-24
There are three types of rock—igneous, metamorphic and sedimentary. Sedimentary rocks form from the weathering, erosion, transportation and deposition of older rocks. Applied Sedimentology describes the formation, transportation and deposition of sediment, and the post-depositional processes

that change soft sediment into sedimentary rock. Sedimentary rocks include sandstones, limestones and mudstones. All the world's coal, most of its water and fossil fuels, and many mineral deposits occur in sedimentary rocks. Applied Sedimentology shows how the study of sediments aids the exploration for and exploitation of natural resources, including water, ores and hydrocarbons. * Completely revised edition; Like its precursor, it describes sediments from sand grains to sedimentary basins; Features up-to date account and critique of sequence and cyclostratigraphy * Extensively illustrated with photos and remotely sensed sea bed images describing sedimentary processes, products and depositional systems; Color plates illustrate sediment textures, lithologies, pore types, diagenetic textures, and carbonate and clastic sequence stratigraphic models * Emphasises the applications of sedimentology to the exploration for and exploitation of natural resources, including water, ores and hydrocarbons * Extensive references and up-to-date bibliography for further study

Energy Research Abstracts - 1990

Petroleum and Marine Technology Information Guide - J. Hutcheon 2003-09-02

First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil, gas and marine industries.

Well Logging Methods - 1971

ERDA Energy Research Abstracts - United States. Energy Research and Development Administration 1976

Petrophysical Characterization and Fluids Transport in Unconventional Reservoirs - Jianchao Cai 2019-01-24

Petrophysical Characterization and Fluids Transport in Unconventional Reservoirs presents a comprehensive look

at these new methods and technologies for the petrophysical characterization of unconventional reservoirs, including recent theoretical advances and modeling on fluids transport in unconventional reservoirs. The book is a valuable tool for geoscientists and engineers working in academia and industry. Many novel technologies and approaches, including petrophysics, multi-scale modelling, rock reconstruction and upscaling approaches are discussed, along with the challenge of the development of unconventional reservoirs and the mechanism of multi-phase/multi-scale flow and transport in these structures. Includes both practical and theoretical research for the characterization of unconventional reservoirs Covers the basic approaches and mechanisms for enhanced recovery techniques in unconventional reservoirs Presents the latest research in the fluid transport processes in unconventional reservoirs

SPE Formation Evaluation - 1997

The Log Analyst - 1999

Development Geology Reference Manual - Diana Morton-Thompson 1993

Standard Handbook of Petroleum and Natural Gas Engineering: Volume 2 - William C. Lyons 1996-10-16
Volume 2 presents the industry standards and practices for reservoir engineering and production engineering. It also looks at all aspects of petroleum economics and shows how to estimate oil and gas reserves.

Frontiers in Geofluids - Bruce W. D. Yardley 2011-03-10
Frontiers in Geofluids is a collection of invited papers chosen to highlight recent developments in our understanding of geological fluids in different parts of the Earth, and published to mark the first ten years of publication of the journal Geofluids. The scope of the volume ranges from the

fundamental properties of fluids and the phase relationships of fluids encountered in nature, to case studies of the role of fluids in natural processes. New developments in analytical and theoretical approaches to understanding fluid compositions, fluid properties, and geological fluid dynamics across a wide range of environments are included. A recurrent theme of research published in Geofluids is the way in which similar approaches can be applied to geological fluids in very different settings and this is reflected in the diverse range of applications of fluid studies that are included here. They include deep groundwater flow, hydrocarbons in faulted sedimentary basins, hydrothermal ores, and multiphase flow in mid-ocean ridge systems. Other topics covered are geothermal waters, crustal metamorphism, and fluids in magmatic systems. The book will be of great interest to researchers and students interested in crustal and mantle fluids of all sorts.

Log Quality Control - Richard M. Bateman 1985

Naturally Fractured Reservoirs - Roberto Aguilera 1995

This publication deals exclusively with naturally fractured reservoirs, and includes many subjects usually treated in separate volumes. It is written for students, reservoir geologists, log analysts and petroleum engineers.

Petroleum Production Systems - Michael J. Economides 2013

Written by four leading experts, this edition thoroughly introduces today's modern principles of petroleum production systems development and operation, considering the combined behaviour of reservoirs, surface equipment, pipeline systems, and storage facilities. The authors address key issues including artificial lift, well diagnosis, matrix stimulation, hydraulic fracturing and sand control. They show how to optimise systems for diverse

production schedules using queuing theory, as well as linear and dynamic programming. Throughout, they provide both best practices and rationales, fully illuminating the exploitation of unconventional oil and gas reservoirs. Updates include: Extensive new coverage of hydraulic fracturing, including high permeability fracturing New sand and water management techniques * An all-new chapter on Production Analysis New coverage of digital reservoirs and self-learning techniques New skin correlations and HW flow techniques

Well Logging and Formation Evaluation - Toby Darling 2005-05-26

This hand guide in the Gulf Drilling Guides series offers practical techniques that are valuable to petrophysicists and engineers in their day-to-day jobs. Based on the author's many years of experience working in oil companies around the world, this guide is a comprehensive collection of techniques and rules of thumb that work. The primary functions of the drilling or petroleum engineer are to ensure that the right operational decisions are made during the course of drilling and testing a well, from data gathering, completion and testing, and thereafter to provide the necessary parameters to enable an accurate static and dynamic model of the reservoir to be constructed. This guide supplies these, and many other, answers to their everyday problems. There are chapters on NMR logging, core analysis, sampling, and interpretation of the data to give the engineer a full picture of the formation. There is no other single guide like this, covering all aspects of well logging and formation evaluation, completely updated with the latest techniques and applications. · A valuable reference dedicated solely to well logging and formation evaluation. · Comprehensive coverage of the latest technologies and practices, including, troubleshooting for stuck pipe, operational

decisions, and logging contracts. · Packed with money-saving and time saving strategies for the engineer working in the field.

Geologic Well Log Analysis - Sylvain Joseph Pirson 1983

Uncertainty Analysis and Reservoir Modeling - Y. Zee Ma 2011-12-20

Openhole Log Analysis and Formation Evaluation - Richard M. Bateman 2012

Encyclopedia of Well Log... - Robert Desbrandes

"The aim of this book is to provide students, trainees and engineers with a manual covering all wel-logging measurements ranging from drilling to production, from oil to minerals going by way of geothermal energy. Each chapter is necessarily a summary, especially in the field of conventional measurements which are effectively described by service companies and some authors, but each topic can be followed further by means of the bibliographic lists which give the best references in each field."--Preface

Abnormal Formation Pressures - W.H. Fertl 1981-01-01

Abnormal Formation Pressures

Essentials of Modern Open-hole Log Interpretation - John T. Dewan 1983

This book presents modern log interpretation simply and concisely for the geologist, petrophysicist, reservoir engineer, and production engineer familiar with rock properties but inexperienced with logs. It helps you specify good logging programs with up-to-date tools and interpret zones of interest with the latest techniques. You will also become familiar with computer-processed logs generated by the service companies at the wellsite and office.

Geophysics and Geosequestration - Thomas L. Davis 2019-05-09

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

Groundwater in the Celtic Regions - N. S. Robins 2000

Applied Geophysics in Hydrogeological and Engineering Practice - W.E. Kelly 1993-01-28
Engineering geology and hydrogeology are applied sciences which utilize other applied sciences such as geophysics to solve practical problems. The book is written in the monograph format with seven chapters. The first chapter introduces the engineering and hydrogeological tasks to be discussed in the book. Relations between the physical, geomechanical and hydrogeological parameters are discussed in chapters three and five. Methods for field measurements and interpretation of field data are discussed in chapters four and six. Some special methods not routinely used in current practice are discussed in chapter seven. To illustrate and analyze the various applications, the authors have drawn from the extensive literature including many studies not previously described in english texts. Theoretical analyzes are supplemented by numerous examples. This book is addressed to university students of geology especially engineering geology and hydrogeology, geophysics and earth sciences, and post graduate, reseachers, and practising engineering geologists, geotechnical engineers, and hydrogeologists.
Instruments, Measurement Principles and Communication Technologies for Downhole Drilling Environments - Chinthaka P. Gooneratne 2018-12-30
This book presents a complete review of the unique instruments and the communication technologies utilized in downhole drilling environments. These instruments and communication technologies play a critical role in drilling hydrocarbon wells safely, accurately and efficiently into a target reservoir zone by

acquiring information about the surrounding geological formations as well as providing directional measurements of the wellbore. Research into instruments and communication technologies for hydrocarbon drilling has not been explored by researchers to the same extent as other fields, such as biomedical, automotive and aerospace applications. Therefore, the book serves as an opportunity for researchers to truly understand how instruments and communication technologies can be used in a downhole environment and to provide fertile ground for research and development in this area. A look ahead, discussing other technologies such as micro-electromechanical-systems (MEMS) and fourth industrial revolution technologies such as automation, the industrial internet of things (IIoT), artificial intelligence, and robotics that can potentially be used in the oil/gas industry are also presented, as well as requirements still need to be met in order to deploy them in the field.

Basic Well Log Analysis - George B. Asquith 2004

This publication is a general introduction to common openhole logging measurements, both wire line and MWD/LWD, and the interpretation of those measurements to determine the traditional analytical goals of porosity, fluid saturation, and lithology/mineralogy. It is arranged by the interpretation goals of the data, rather than by the underlying physics of the measurements. The appendix files contain digital versions of the data from the case studies, a summary guide to the measurements and their interpretation, and a simple spreadsheet containing some of the more common interpretation algorithms.

Drilling Technology - Majid Tolouei-Rad 2021-07-21

Drilling is an old and well-known operation, and over the years significant improvements have been achieved in the performance of drilling operations. This book presents

the latest findings of scientists and engineers for enhancing the quality and performance of drilling in various industries. It covers interesting topics on conventional and multi-spindle drilling operations, challenges of machining widely used aluminum alloys, non-conventional drilling using the hybrid EDM+ECM method, development of CNC machines, and the loss of circulation in the drilling of oil wells. This book is a useful resource for engineers, researchers, students, and those who work in industries involved in various forms of drilling operations.

Energy Research Abstracts - 1981

Elements of Petroleum Geology - Richard C. Selley 2022-08-26 Elements of Petroleum Geology, Fourth Edition is a useful primer for geophysicists, geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area. It is also an excellent introductory text for a university course in petroleum geoscience. This updated edition includes new case studies on non-conventional exploration, including tight oil and shale gas exploration, as well as coverage of the impacts on petroleum geology on the environment. Sections on shale reservoirs, flow units and containers, IOR and EOR, giant petroleum provinces, halo reservoirs, and resource estimation methods are also expanded. Written by a preeminent petroleum geologist and sedimentologist with decades of petroleum exploration in remote corners of the world Covers information pertinent to everyone working in the oil and gas industry, especially geophysicists, geologists and petroleum reservoir engineers Fully revised with updated references and expanded coverage of topics and new case studies

Introduction to Geophysical Formation Evaluation - James K. Hallenburg 1997-12-29 These three works cover the

entire field of formation evaluation, from basic concepts and theories, through standard methods used by the petroleum industry, on to new and exciting applications in environmental science and engineering, hydrogeology, and other fields. Designed to be used individually or as a set, these volumes represent the first comprehensive assessment of all exploration methodologies. No other books offer the breadth of information and range of applications available in this set. The first volume, Introduction to Geophysical Formation Evaluation, is the perfect introductory reference for environmental professionals without previous training in the field. It explains the fundamentals of geophysical exploration and analysis, illuminates the underlying theories, and offers practical guidance on how to use the available methodologies. General information on material behavior, porosity, tortuosity, permeability, cores, resistivity, radioactivity, and more provides a solid foundation for more advanced studies. The second volume, Standard Methods of Geophysical Formation Evaluation builds on the basic precepts presented in the first work but can be used alone as a self-contained reference. It covers all the petroleum-oriented standard methods which, until recently, have comprised the majority of applications of geophysical formation evaluation. It also points out non-hydrocarbon uses of petroleum methods. This volume provides complete practical information and instructions on using the standard exploration and evaluation methods. It presents comprehensive, painstakingly detailed instructions for resistivity, radiation, and acoustic methods. The third volume, Non-Hydrocarbon Methods of Geophysical Formation Evaluation, discusses uses of formation evaluation in environmental science and engineering, hydrogeology, and other fields outside the petroleum industry,

and demonstrates how the standard methods can be adapted to these non-hydrocarbon purposes. It presents step-by-step instructions for photon, magnetic, nuclear, and acoustic methods of exploration, and gives special attention to the analytical techniques used in non-hydrocarbon exploration. Individually, each book is a complete, stand-alone reference on an important area of this changing field. Together, the three volumes provide the most complete practical compendium available on all aspects of formation evaluation.

Formation Evaluation with Pre-Digital Well Logs - Richard M. Bateman 2020-02-08

Formation Evaluation with Pre-Digital Well Logs covers the practical use of legacy materials for formation evaluation using wireline logging equipment from 1927 until the introduction of digital logging in the 1960s and '70s. The book provides powerful interpretation techniques that can be applied today when an analyst is faced with a drawer full of old "E logs." It arms the engineer, geologist and petrophysicist with the tools needed to profitably plan re-completions or in-fill drilling in old fields that may have been acquired for modern deeper and/or horizontal drilling. Includes more than 150 figures, log examples, charts and graphs Provides work exercises for the reader to practice log analysis and formation evaluation Presents an important source for academia, oil and gas professionals, service company personnel and the banking and asset evaluation teams at consultancies involved in reserve and other property evaluation

Quantitative Geosciences: Data Analytics, Geostatistics, Reservoir Characterization and Modeling - Y. Z. Ma 2019-07-15

Earth science is becoming increasingly quantitative in the digital age. Quantification of geoscience and engineering problems underpins many of

the applications of big data and artificial intelligence. This book presents quantitative geosciences in three parts. Part 1 presents data analytics using probability, statistical and machine-learning methods. Part 2 covers reservoir characterization using several geoscience disciplines: including geology, geophysics, petrophysics and geostatistics. Part 3 treats reservoir modeling, resource evaluation and uncertainty analysis using integrated geoscience, engineering and geostatistical methods. As the petroleum industry is heading towards operating oil fields digitally, a multidisciplinary skillset is a must for geoscientists who need to use data analytics to resolve inconsistencies in various sources of data, model reservoir properties, evaluate uncertainties, and quantify risk for decision making. This book intends to serve as a bridge for advancing the multidisciplinary integration for digital fields. The goal is to move beyond using quantitative methods individually to an integrated descriptive-quantitative analysis. In big data, everything tells us something, but nothing tells us everything. This book emphasizes the integrated, multidisciplinary solutions for practical problems in resource evaluation and field development.

Unconventional Hydrocarbon Resources - Reza Barati 2020-11-11

A comprehensive textbook presenting techniques for the analysis and characterization of shale plays Significant reserves of hydrocarbons cannot be extracted using conventional methods. Improvements in techniques such as horizontal drilling and hydraulic fracturing have increased access to unconventional hydrocarbon resources, ushering in the “shale boom” and disrupting the energy sector. Unconventional Hydrocarbon Resources: Techniques for Reservoir Engineering Analysis covers the geochemistry, petrophysics, geomechanics, and economics of unconventional shale oil plays.

The text uses a step-by-step approach to demonstrate industry-standard workflows for calculating resource volume and optimizing the extraction process. Volume highlights include: Methods for rock and fluid characterization of unconventional shale plays A workflow for analyzing wells with stimulated reservoir volume regions An unconventional approach to understanding of fluid flow through porous media A comprehensive summary of discoveries of massive shale resources worldwide Data from Eagle Ford, Woodford, Wolfcamp, and The Bakken shale plays Examples, homework assignments, projects, and access to supplementary online resources Hands-on teaching materials for use in petroleum engineering software applications The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

The Acquisition of Logging Data - 1984-03-01

The Acquisition of Logging Data

Springer Handbook of Petroleum Technology - Chang Samuel Hsu 2017-12-20

This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology. Built on the successful book "Practical Advances in Petroleum Processing" published in 2006, it has been extensively revised and expanded to include upstream technologies. The book is divided into four parts: The first part on petroleum characterization offers an in-depth review of the chemical composition and physical properties of petroleum, which determine the possible uses and the quality of the products. The second part provides a brief overview of petroleum geology and upstream practices. The third part exhaustively discusses established and emerging

refining technologies from a practical perspective, while the final part describes the production of various refining products, including fuels and lubricants, as well as petrochemicals, such as olefins and polymers. It also covers process automation and real-time refinery-wide process optimization. Two key chapters provide an integrated view of petroleum technology, including environmental and safety issues.Written by international experts from academia, industry and research institutions, including integrated oil companies, catalyst suppliers, licensors, and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals.

NMR Logging Principles and Applications - George R. Coates 1999

Dick Cheney, former Halliburton CEO, writes in the foreword: "NMR logging represents a new revolution in formation evaluation with wireline logging, and this book gives a comprehensive treatment of this new technology...Besides explaining basic NMR principles and applications, this book provides an understanding of these latest achievements in NMR logging." When NUMAR introduced its MRIL logging service in 1992, it caused a revolution in the petroleum industry by making possible the systematic estmation of permeability, prevously an impossibility. Permeability, however, was not the only petrophysical benefit provided by this new technology. Mineral-independent total porosity, water, gas and oil saturation, and oil viscosity have all been found achievable through the use of this revolutionary new logging technology. Introduces revolutionary new well logging technology Developed by Halliburton, one of the premier well servicing companies in the world Shows how to incorporate this new technology into other well logging principles

Borehole Imaging - Gail

Williamson 1999