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# Nuclear Magnetic Resonance Physicochemical and Logging Applications

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# Nuclear Magnetic Resonance Petrophysical And Logging Applications

**Sarah L. Codd, Joseph D. Seymour**



## **Nuclear Magnetic Resonance Petrophysical And Logging Applications:**

**Nuclear Magnetic Resonance** K.-J. Dunn, D.J. Bergman, G.A. LaTorraca, 2002-01-25 The applications of nuclear magnetic resonance NMR to petroleum exploration and production have become more and more important in recent years. The development of the NMR logging technology and the NMR applications to core analysis and formation evaluation have been very rapid and extensive. The scope of this book covers a wide range of NMR related petrophysical measurements on cores including brief descriptions of recent applications of Magic Angle Spinning MAS NMR and the basics of NMR imaging of cores. In the discussion of NMR logging applications various schemes of using NMR logs to obtain necessary information for formation evaluation are outlined such as irreducible water saturation determination, hydrocarbon typing, oil viscosity estimation and permeability prediction. The principles of these applications are discussed using schematic diagrams for illustration. A unique aspect of the book is that it provides a detailed account of the basic principles of spin diffusion and relaxation in porous media. Another important area that is covered is the inversion of NMR data into a distribution of amplitudes associated with relaxation time which provides the basic information needed to interpret the NMR measurements obtained from logging.

**Nuclear Magnetic Resonance Petrophysical and Logging Applications**, 2002 **Nuclear Magnetic Resonance Petrophysical And Logging Applications (handbook Of Geophysical Exploration Seismic Exploration, Volume 32)** Dunn K.-J. Et Al, 2009-01-01 *NMR Logging Principles and Applications* George R. Coates, 1999

OF NMR LOGGING APPLICATIONS AND BENEFITS Medical MRI MRI Logging Comparison of the MRIL Tool to other logging tools NMR logging raw data NMR porosity NMR T2 distribution NMR free fluid index and bulk volume irreducible NMR permeability NMR properties of reservoir fluids NMR hydrocarbon typing NMR enhanced water saturation with resistivity data MRIL application examples MRIL acquisition data sets MRIL response in rugose holes NMR logging applications summary NMR PHYSICS Nuclear magnetism Polarization Pulse tipping and free induction decay Spin echo detection NMR measurement timing FUNDAMENTALS OF NMR PETROPHYSICS NMR relaxation mechanisms of fluids in rock pores Multi exponential decay Echo fit for T2 distribution Pore size distribution Determination of BVI MRIL permeability model MRIL porosity model FUNDAMENTALS OF NMR HYDROCARBON TYPING NMR properties of hydrocarbons NMR hydrocarbon typing Oil effects on T2 distributions Gas effects on T2 distribution under different conditions MRIL TOOL PRINCIPLES Polarization Magnetization tipping and spin echo detection Logging speed and vertical resolution Depth of investigation Multi frequency measurement and RF pulse bandwidth Ringing effect Signal to noise ratio and running average Activations Tool configuration

**Handbuch zur Erkundung des Untergrundes von Deponien und Altlasten** Klaus Knödel, Heinrich Krummel, Gerhard Lange, 2005-08-15 Dieses Handbuch besteht aus insgesamt neun Einzelbänden. Sechs Bände behandeln die Themen Geofernerkundung, Strömungs- und Transportmodellierung, Geophysik, Hydrogeologie, Geotechnik, Tonmineralogie und Bodenphysik sowie Geochemie. Drei weitere Bände geben Handlungsempfehlungen für ein stufenweises

Vorgehen bei der Erkundung von Deponie und Altlastenstandorten Fallbeispiele aus der Erkundungspraxis sowie einen Leitfaden zur interdisziplinären Erkundung und Bewertung von Quartsedimenten als geologische Barrieren Damit wird allen die in Behörden und Firmen oder in der Wissenschaft an den Problemen des Umweltschutzes arbeiten ein umfassendes Werk zur Verfügung gestellt mit dem geowissenschaftliche Erkundungsarbeiten kologisch wirksam und ökonomisch effizient durchgeführt werden können In dieser aktualisierten Neuauflage des Bandes Geophysik werden die geophysikalischen Methoden und Werkzeuge zur Erkundung und Beschreibung des Untergrundes von Deponien und Altablagerungen dargestellt Das breite Methodenspektrum wurde um die Kapitel Oberflächen Nuklear Magnetische Resonanz zur Grundwassersuche und NMR Laborverfahren erweitert Ein neues Kapitel In situ Überwachung stellt moderne Verfahren zur Langzeit Überwachung vor Die Einschränkung des Anwendungsbereiches auf den Untergrund von Deponien und Altlasten bezieht sich vornehmlich auf die verwendeten Beispiele Die dargestellten Methoden und Werkzeuge sind jedoch universell einsetzbar Das Handbuch kann daher als ein Kompendium für die Umweltgeophysik verstanden werden Es soll ausdrücklich kein Lehrbuch ersetzen Dennoch wird es schon durch seine praxisorientierten Methodendarstellungen und zahlreichen Anwendungsbeispiele für die Aus- und Weiterbildung von Nutzen sein Mit einer leicht verständlichen Methodenbeschreibung und Angaben zu den Anwendungsmöglichkeiten sollen auch fachfremde Leser angesprochen werden Vorwiegend in den Grundlagenkapiteln findet der Geophysiker das Spezialwissen das er zum Einsatz der Methode oder zur Beurteilung von Ergebnissen benötigt Erläutert werden auch die Messprinzipien und der Stand der Messtechnik die Anlage und Durchführung der Feldarbeiten die Bearbeitung und Interpretation der Messdaten die Qualitätssicherung sowie der personelle technische und zeitliche Aufwand Beispiele aus der Erkundungspraxis veranschaulichen die Anwendung der Methoden

**Practical NMR for Oil and Gas Exploration** Lizhi Xiao, 2023-08-14 Describing comprehensively the development and applications of NMR to oil and gas exploration this book will bring the literature up to date as it has developed very quickly in the last two decades Outlining new methodologies it will provide a thorough and comprehensive document enabling a better understanding of the basics of NMR physics petrophysics downhole tools and data interpretation Written by an author with more than 30 years experience in this hot and important topic this book is designed to meet the needs of the community and encourage applications in low field NMR

**Proceedings of the International Field Exploration and Development Conference 2024** Jiaen Lin, 2025-05-30 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024 The work focuses on topics including Reservoir Exploration Reservoir Drilling Completion Field Geophysics Well Logging Petroliferous Basin Evaluation Oil Gas Accumulation Fine Reservoir Description Complex Reservoir Dynamics and Analysis Low Permeability Tight Oil Gas Reservoirs Shale Oil Gas Fracture Vuggy Reservoirs Enhanced Oil Recovery in Mature Oil Fields Enhanced Oil Recovery for Heavy Oil Reservoirs Big Data and Artificial Intelligence Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional

Resources The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production The primary audience for this work includes reservoir engineers geological engineers senior engineers enterprise managers and students

**Analytical Methods in Petroleum Upstream Applications** Cesar Ovalles, Carl E. Rechsteiner Jr., 2015-02-12 Effective measurement of the composition and properties of petroleum is essential for its exploration production and refining however new technologies and methodologies are not adequately documented in much of the current literature Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrument

**Treatise on Geophysics**, 2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

**Petrophysical Characterization and Fluids Transport in Unconventional Reservoirs** Jianchao Cai, Xiangyun Hu, 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

**A Geoscientist's Guide to Petrophysics** Bernard Zinszner, Francois-Marie Pellerin, 2007 Geoscientists and Engineers taking an interest in Petrophysics are struck by the contrasting treatment of the Physics Aspects and the Geology Aspects If we are to scale up isolated petrophysical observations to an entire oil reservoir or an aquifer it is essential to implement the powerful extrapolation tool of geological interpretation This is clearly based on a good understanding of the relations between the petrophysical parameters studied

and the petrological characteristics of the rock considered The book is divided into two sections of different size The first section by far the largest describes the various petrophysical properties of rocks Each property is defined limiting the mathematical formulation to the strict minimum but emphasising the geometrical and therefore petrological parameters governing this property The second section concentrates on methodological problems and concerns above all the representativeness of the measurements and the size effects The notions of Representative Elementary Volume Homogeneity Anisotropy RockType etc provide a better understanding of the problems of up scaling Plug Core Log Analysis Well Test Lastly we provide a description of several Porous Network investigation methods Thin section Pore Cast Visualization of capillary properties X ray tomography

**Well Logging for Earth Scientists** Darwin V. Ellis, Julian M. Singer, 2008-06-18 The first edition of this book demystified the process of well log analysis for students researchers and practitioners In the two decades since the industry has changed enormously technical staffs are smaller and hydrocarbons are harder to locate quantify and produce New drilling techniques have engendered new measurement devices incorporated into the drilling string Corporate restructuring and the graying of the workforce have caused a scarcity in technical competence involved in the search and exploitation of petroleum The updated 2nd Edition reviews logging measurement technology developed in the last twenty years and expands the petrophysical applications of the measurements

**Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks** Behzad Ghanbarian, Feng Liang, Hui-Hai Liu, 2023-04-13 Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks Understanding and predicting fluid flow in hydrocarbon shale and other non conventional reservoir rocks Oil and natural gas reservoirs found in shale and other tight and ultra tight porous rocks have become increasingly important sources of energy in both North America and East Asia As a result extensive research in recent decades has focused on the mechanisms of fluid transfer within these reservoirs which have complex pore networks at multiple scales Continued research into these important energy sources requires detailed knowledge of the emerging theoretical and computational developments in this field Following a multidisciplinary approach that combines engineering geosciences and rock physics Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks provides both academic and industrial readers with a thorough grounding in this cutting edge area of rock geology combining an explanation of the underlying theories and models with practical applications in the field Readers will also find An introduction to the digital modeling of rocks Detailed treatment of digital rock physics including decline curve analysis and non Darcy flow Solutions for difficult to acquire measurements of key petrophysical characteristics such as shale wettability effective permeability stress sensitivity and sweet spots Physics of Fluid Flow and Transport in Unconventional Reservoir Rocks is a fundamental resource for academic and industrial researchers in hydrocarbon exploration fluid flow and rock physics as well as professionals in related fields

**Advanced Methods for Interpreting Geological and Geophysical Data** Ahmed M. Eldosouky, Luan Thanh Pham, David Gomez-Ortiz, Saulo Oliveira , Ahmed Henaish, 2024-07-08 The

introduction and application of advanced geological and geophysical methods can solve many problems related to geoscience. This Research Topic gives a thorough treatment of the interpretation of geological and geophysical data through advanced techniques and integrated approaches. It aims to create a more reliable integration of various geological and geophysical data in an exploration and new findings context, weighing the strengths and limitations of the various methods in order to develop geophysical and geological models. It will also focus on the interpretation techniques for evaluating structural and sedimentological stratigraphical processes with applications within resource exploration, geohazards, seismology, seabed ecology, and global climate.

**Petrophysics**, 2009      **NMR in Plants and Soils** Andreas Pohlmeier, Siegfried Stapf, Sabina Haber-Pohlmeier, 2025-07-18

Processes in soils with special focus on plant-soil interaction are hot economic and social topics driven by climate change and its impact on human nutrition. Following the pioneering work in the 1980s and early 1990s, nuclear magnetic resonance (NMR) magnetic resonance imaging (MRI) and mobile technologies have become important research methods in this area. This book highlights NMR in the space and time domains as a non-invasive and versatile method for elucidating processes in plants, soils, and their interactions. The field is currently undergoing rapid development driven on the one hand by the increasing pressure to contribute to food security and on the other hand by the increasing availability of new technologies. The book makes the methods accessible to non-NMR specialists and conversely promotes the further development of NMR and MRI from the user's perspective. It opens with a section reviewing the essential NMR and MRI basics for plants and soils and revisits the first investigations from the 1980s. Section two then covers NMR and MRI of soils and soil materials while the third section deals with the study of plants and plant products. The focus in both areas is the new development of mobile NMR devices from centimetre to field scale which enables the investigation of plants and soils in situ. In addition, the coupling of MRI with numerical soil and plant physical models is highlighted. With editors and authors contributing the state of the art of plant and soil NMR and MRI, this book defines the potential applications for researchers looking at how these new topics can enhance their research and understanding in the coming decades.

**Recent Advances in Rock Magnetism, Environmental Magnetism and Paleomagnetism** Danis Nurgaliev, Valery Shcherbakov, Andrei Kostrov, Simo Spassov, 2018-08-14

This book offers a collection of papers presented in the International Conference on Geomagnetism, Paleomagnetism, and Rock Magnetism held in Kazan, Russia, in October 2017. Papers in this book are dedicated to the study of the geomagnetic field through most of Earth's history as well as planetary and meteorite magnetism and magnetic signatures of terrestrial impact craters. Recent studies, summaries, and reviews include: 1) theory of the geomagnetic field, its generation, and variations; 2) experimental data on the geomagnetic field changes; 3) studies of rock magnetism; 4) paleotectonic reconstructions and paleoceanography; 5) magnetostratigraphy; 6) extraterrestrial magnetism. Summary reports and reviews will be presented by the world's leading experts in the field of geomagnetic studies. Such workshops held by Academic Council have become traditional. They are always attended by leading professionals from Russia, CIS, and non-CIS.

countries In addition to discussion sessions focused on recent studies and findings lectures on some basic concepts of geomagnetism will be delivered by leading Russian and foreign scientists      Magnetic Resonance Microscopy Sarah L. Codd, Joseph D. Seymour, 2008-12-17 This handbook and ready reference covers materials science applications as well as microfluidic biomedical and dental applications and the monitoring of physicochemical processes It includes the latest in hardware methodology and applications of spatially resolved magnetic resonance such as portable imaging and single sided spectroscopy For materials scientists spectroscopists chemists physicists and medicinal chemists      **Flow and Transport Properties of Unconventional Reservoirs 2018** Jianchao Cai, Zhien Zhang, Qijun Kang, Harpreet Singh, 2019-07-23

Unconventional reservoirs are usually complex and highly heterogeneous such as shale coal and tight sandstone reservoirs The strong physical and chemical interactions between fluids and pore surfaces lead to the inapplicability of conventional approaches for characterizing fluid flow in these low porosity and ultralow permeability reservoir systems Therefore new theories and techniques are urgently needed to characterize petrophysical properties fluid transport and their relationships at multiple scales for improving production efficiency from unconventional reservoirs This book presents fundamental innovations gathered from 21 recent works on novel applications of new techniques and theories in unconventional reservoirs covering the fields of petrophysical characterization hydraulic fracturing fluid transport physics enhanced oil recovery and geothermal energy Clearly the research covered in this book is helpful to understand and master the latest techniques and theories for unconventional reservoirs which have important practical significance for the economic and effective development of unconventional oil and gas resources      **Rock Physics and Natural Hazards** Sergio Vinciguerra, Yves Bernabé, 2009-11-28 Natural hazards events such as earthquakes or volcanic eruptions involve activation of coupled thermo hydro chemo mechanical processes in rocks The present book assembles unpublished contributions to the 7th Euro Conference on Rock Physics and Geomechanics held in 2007 in Erice Italy It presents new laboratory data theoretical and numerical rock physics models and field observations relevant to the study of natural hazards In particular several papers are devoted to rock failure and explore the relationship between the competing deformation micro mechanisms Several others investigate shear induced anisotropy of mechanical and or transport properties both in large scale geologic objects and in laboratory samples The remaining papers treat various aspects of rock physics and their industrial applications such as geothermics and reservoir characterization

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