



Borehole Nuclear Magnetic Resonance Study at the China University of Petroleum

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ARTICLE INFO

Article history:

Received 16 October 2020

Revised 15 January 2021

Accepted 17 January 2021

Keywords:

Borehole
Nuclear Magnetic Resonance
Spectrometer
Spectroscopy
Rock Physics and Chemistry
Fluids Identification and Formation
Evaluation

ABSTRACT

The research of borehole nuclear magnetic resonance (NMR) began in the 1950 s, but the maturity and large-scale applications of relevant instruments started in the mid-1990. To date, borehole NMR is an important means for borehole in-situ analysis and oil and gas evaluation, which significantly improves the success rate of exploration and the evaluation accuracy of oil and gas reservoirs. Its development has also contributed importantly to low-field and industrial NMR theories and experimental methodologies. Companies and individuals in the United States, China and other countries have developed the capabilities to engineer and deploy borehole NMR instruments and measurements independently. NMR imaging and evaluation of heterogeneous reservoirs and unconventional oil and gas are worldwide problems, involving the innovation of borehole NMR and the advanced manufacture of instruments and equipment.

The commercial technology of borehole oil and gas exploration is highly competitive and proprietary. It is difficult to gain full insight into the details of the technologies and development from published literatures. Based on the research of the author's NMR laboratory at the China University of Petroleum (CUP), this paper reviews the core technologies of borehole NMR and its applications, discusses selected important issues that have not been fully solved, and looks forward to the direction and prospects of future development.

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1. Introduction

Oil and gas, buried in tiny pores of the reservoir rock formations under subsurface, are invisible and untouchable fluid deposits. Oil and gas well logging technology, invented by the Schlumberger brothers in France and first applied in 1927, puts well-designed probe and electronics into wells thousands of meters deep, to obtain information about porosity, permeability, water saturation and lithology of Earth formations and answers "Where's the oil and gas? How many? How much can be extracted? In what way?". It is vividly known as the "eyes" for oil and gas exploration and development. Well logging runs through the entire life cycle of oil and gas wells and fields, and it has become one of the core technologies in modern petroleum industry. In a vertical well, wireline logging devices are applied to open hole, cased hole and production well to acquire information regarding the formation outside of the borehole or fluids properties inside the borehole. In a high angle or horizontal well, however, wireline devices were not able

to be delivered to the objective zone for measuring the formation properties outside or inside the borehole.

Many conventional logging methods, which includes resistivity with deep, medium and shallow depth of investigation, acoustic travel time, formation bulk density and neutron porosity, spontaneous potential, gamma ray and caliper, have long been used in petroleum industry and achieved good results in the early non-complex conventional oil and gas reservoirs. However, with issues like "how to explore oil and gas in deep formation layers, deep-water or unconventional reservoirs" having become the mainstream of oil and gas exploration and development, the characterizations of reservoirs are gradually transferred to the descriptions and evaluations of tight and the complex pore structure and even the fractures [1]. The resistivity, acoustic, and nuclear logging methods used for reservoirs with tight and complex pores structure, have low sensitivity to the investigation of fluids and their states resulting in poor accuracy. The nuclear magnetic resonance technique is sensitive to fluids and their physical properties in tight and complex pores in reservoirs, providing key, rich and unique information about fluid content, fluid type, pore properties, and even wettability [2].

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Robert D. Warmbrodt



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Nuclear Magnetic Resonance Studies in Forestry Robert D. Warmbrodt, 1991 Nuclear Magnetic Resonance Study of Normal and Superfluid ^3He Harvey Hyden Hensley, 1992 Nuclear Magnetic Resonance Studies of Interfacial Phenomena Vladimir M. Gun'ko, Vladimir V. Turov, 2013-04-08 Properties and applications of high surface area materials depend on interfacial phenomena including diffusion sorption dissolution solvation surface reactions catalysis and phase transitions Among the physicochemical methods that give useful information regarding these complex phenomena nuclear magnetic resonance NMR spectroscopy is the most universal yielding detailed structural data regarding molecules solids and interfaces Nuclear Magnetic Resonance Studies of Interfacial Phenomena summarizes NMR research results collected over the past three decades for a wide range of materials from nanomaterials and nanocomposites to biomaterials cells tissues and seeds This book describes the applications of important new NMR spectroscopic methods to a variety of useful materials and compares them with results from other techniques such as adsorption differential scanning calorimetry thermally stimulated depolarization current dielectric relaxation spectroscopy infrared spectroscopy optical microscopy and small angle and wide angle x ray scattering The text explores the application of NMR spectroscopy to examine interfacial phenomena in objects of increasing complexity beginning with unmodified and modified silica materials It then describes properties of various mixed oxides with comparisons to individual oxides and also describes carbon materials such as graphite and carbon nanotubes Chapters deal with carbon mineral hybrids and their mosaic surface structures and interfacial phenomena at the surface of natural and synthetic polymers They also explore a variety of biosystems which are much more complex including biomacromolecules proteins DNA and lipids cells and tissues and seeds and herbs The authors cover trends in interfacial phenomena investigations and the final chapter describes NMR and other methods used in the book This text presents a comprehensive description of a large array of hard and soft materials allowing the analysis of the structure property relationships and generalities on the interfacial behavior of materials and adsorbates **Nuclear Magnetic Resonance Studies in Plant Science** Robert D. Warmbrodt, 1991 **Nuclear Magnetic Resonance Studies in Plant Science, January 1984-October 1988** Suzanne Nanis, 1988 *Nuclear Magnetic Resonance Studies in Animal Science* Robert D. Warmbrodt, 1991 **Nuclear Magnetic Resonance Studies in Animal Science, January 1979-October 1988** Suzanne Nanis, 1989 Nuclear Magnetic Resonance Studies in Lyotropic Liquid Crystals CL Khetrpal, A. Kunwar, A.S. Tracey, P. Diehl, 2013-03-13 1 Lyotropic Liquid Crystals The class of compounds known as thermotropic liquid crystals has been widely utilized in basic research and industry during recent years The properties of these materials are such that on heating from the solid to the isotropic liquid state phase transitions occur with the formation of one or more intermediate anisotropic liquids The unique and sometimes startling properties of these liquid crystals are the properties of pure compounds However there exists a second class of substances known as lyotropic liquid crystals which

obtain their anisotropic properties from the mixing of two or more components One of the components is amphiphilic containing a polar head group generally ionic or zwitterionic attached to one or more long chain hydrocarbons the second component is usually water Lyotropic liquid crystals occur abundantly in nature particularly in all living systems As a consequence a bright future seems assured for studies on such systems Even now many of the properties of these systems are poorly understood It is the purpose of this review to consolidate the results obtained from nuclear magnetic resonance studies of such systems and to provide a coherent picture of the field Probably the most familiar example of a lyotropic liquid crystal is soap in water A common soap is sodium dodecylsulphate where an ionic group sulphate is attached to a hydrocarbon chain containing twelve carbons

Nuclear Magnetic Resonance Studies in Non-food and Non-feed Agricultural Products Robert D. Warmbrodt,1991 Nuclear Magnetic Resonance Studies in Soil Science Robert D.

Warmbrodt,1991 **Nuclear Magnetic Resonance Study of the Magnetic Line Phases in SrCoO_x ($2.5 \leq x \leq 3$).** ,2016

Nuclear Magnetic Resonance Studies in Food Science Robert D. Warmbrodt,1991 **Pulsed Nuclear Magnetic Resonance Studies of Oil Shales-estimation of Potential Oil Yields** Francis P. Miknis,Andrew W. Decora,Glenn L. Cook,1974 **Nuclear Magnetic Resonance Study on Multiple Superconducting Phases in UTe_2** Katsuki

Kinjo,2024-11-22 This book provides an insight into spin triplet superconductivity which rapidly becomes better understood in recent years from the perspective of a microscopic measurement technique called nuclear magnetic resonance NMR The compound UTe_2 the target material of this book was confirmed to show superconductivity in 2018 and its peculiarity is very similar to that of other uranium based ferromagnetic superconductors ensuring spin triplet superconductivity This book begins with the fundamentals of superconductivity and subsequently overviews research in spin triplet superconductivity The similarity between the high field superconducting phase in UTe_2 and the superconducting phase under pressure is particularly interesting among the various superconducting phenomena observed so far This book provides a concise introduction to superconductivity so that the book is also intended for wide readership including the beginners interested in the phenomenon of superconductivity and undergraduate and graduate students It also cover the NMR measurement from the basic derivation which is accessible for beginners The target material UTe_2 is skillfully described including a selection of related works to this book *Nuclear Magnetic Resonance Studies of Some Inorganic Molecules and Ions* Richard Edwin

Poulson,1956 **Nuclear Magnetic Resonance Studies in Entomology** Robert D. Warmbrodt,1991 A Nuclear Magnetic Resonance Study of PdH Near 50K. Sydney Robert Kreitzman,F. D. (supervisor) Manchester,R. L. (supervisor) Armstrong,1975 **Ferroelectrics Literature Index** T. F. Connolly,2012-12-06 Research on ferroelectricity and

ferroelectric materials started in 1920 with the discovery by Valasek that the variation of spontaneous polarization in Rochelle salt with sign and magnitude of an applied electric field traced a complete and reproducible hysteresis loop Activity in the field was sporadic until 1935 when Busch and co workers announced the observation of similar behavior in potassium

dihydrogen phosphate and related compounds Progress thereafter continued at a modest level with the undertaking of some theoretical as well as further experimental studies In 1944 von Hippel and co workers discovered ferroelectricity in barium titanate The technological importance of ceramic barium titanate and other perovskites led to an upsurge of interest with many new ferroelectrics being identified in the following decade By 1967 about 2000 papers on various aspects of ferroelectricity had been published The bulk of this widely dispersed literature was concerned with the experimental measurement of dielectric crystallographic thermal electromechanical elastic optical and magnetic properties A critical and excellently organized compilation based on these data appeared in 1969 with the publication of Landolt Bornstein Volume 111 3 This superb tabulation gave instant access to the results in the literature on nearly 450 pure substances and solid solutions of ferroelectric and antiferroelectric materials Continuing interest in ferroelectrics spurred by the growing importance of electrooptic crystals resulted in the publication of almost as many additional papers by the end of 1969 as had been surveyed in Landolt Bornstein

OAR Index of Research Results ,1967 **OAR Quarterly Index of Current Research Results** United States. Air Force. Office of Aerospace Research,1967

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