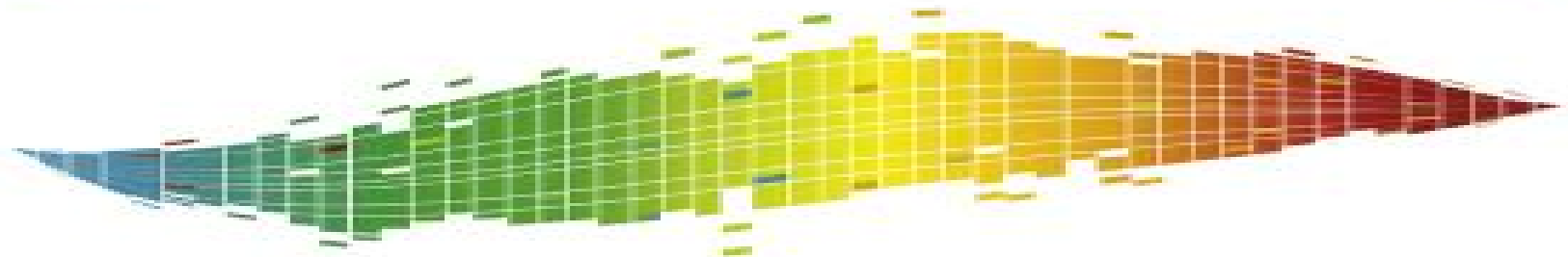




QUANTITATIVE METHODS IN RESERVOIR ENGINEERING

Second Edition



Wilson C. Chin



Quantitative Methods In Reservoir Engineering

L Darling-Hammond



Quantitative Methods In Reservoir Engineering:

Quantitative Methods in Reservoir Engineering Wilson C Chin, 2002-06-18 Motivating ideas and governing equations Fracture flow analysis Flows past shaly bodies Streamline tracing and complex variables Flows in complicated geometries radial flow analysis Finite difference methods for planar flows Curvilinear coordinates and numerical grid generation Steady state reservoir applications Transient compressible flows numerical well test simulation Effective properties in single and multiphase flows Modeling stochastic heterogeneities Real and artificial viscosity Borehole flow invasion lost circulation and time lapse logging Horizontal deviated and modern multilateral well analysis Fluid mechanics of invasion Static and dynamic filtration Formation tester applications Analytical Methods for Time Lapse Well Logging Analysis Complex invasion problems numerical modeling Forward and inverse multiphase flow modeling **Reservoir Engineering in Modern Oilfields**

Wilson C. Chin, 2016-07-26 Real world reservoirs are layered heterogeneous and anisotropic exposed to water and gas drives faults barriers and fractures They are produced by systems of vertical deviated horizontal and multilateral wells whose locations sizes shapes and topologies are dictated on the fly at random by petroleum engineers and drillers at well sites Wells may be pressure or rate constrained with these roles re assigned during simulation with older laterals shut in newer wells drilled and brought on stream and so on And all are subject to steady and transient production each satisfying different physical and mathematical laws making reservoir simulation an art difficult to master and introducing numerous barriers to entry All of these important processes can now be simulated in any order using rapid stable and accurate computational models developed over two decades And what if it were further possible to sketch complicated geologies and lithologies plus equally complex systems of general wells layer by layer using Windows Notepad And with no prior reservoir simulation experience and only passing exposure to reservoir engineering principles Have the user press Simulate and literally within minutes produce complicated field wide results production forecasts and detailed three dimensional color pressure plots from integrated graphics algorithms Developed over years of research this possibility has become reality The author an M I T trained scientist who has authored fifteen original research books over a hundred papers and forty patents winner of a prestigious British Petroleum Chairman s Innovation Award in reservoir engineering and a record five awards from the United States Department of Energy has delivered just such a product making real time planning at the well site simple and practical Workflows developed from experience as a practicing reservoir engineer are incorporated into intelligent menus that make in depth understanding of simulation principles and readings of user manuals unnecessary This volume describes new technology for down to earth problems using numerous examples performed with our state of the art simulator one that is available separately at affordable cost and requiring only simple Intel Core i5 computers without specialized graphics boards The new methods are rigorous validated and well documented and are now available for broad petroleum industry application **Modern Aerodynamic Methods for Direct and Inverse Applications** Wilson C. Chin, 2019-03-21 A

powerful new monograph from an aerodynamicist reviewing modern conventional aerodynamic approaches this volume covers aspects of subsonic transonic and supersonic flow inverse problems shear flow analysis jet engine power addition engine and airframe integration and other areas providing readers with the tools needed to evaluate their own ideas and to implement the newer methods suggested in this book This new book by a prolific fluid dynamicist and mathematician who has published more than twenty research monographs represents not just another contribution to aerodynamics but a book that raises serious questions about traditionally accepted approaches and formulations providing new methods that solve longstanding problems of importance to the industry While both conventional and newer ideas are discussed the presentations are readable and geared to advanced undergraduates with exposure to elementary differential equations and introductory aerodynamics principles Readers are introduced to fundamental algorithms with Fortran source code for basic applications such as subsonic lifting airfoils transonic supercritical flows utilizing mixed differencing models for inviscid shear flow aerodynamics and so on These are models they can extend to include newer effects developed in the second half of the book Many of the newer methods have appeared over the years in various journals and are now presented with deeper perspective and integration This book helps readers approach the literature more critically Rather than simply understanding an approach for instance the powerful type differencing behind transonic analysis or the rationale behind conservative formulations or the use of Euler equation methods for shear flow analysis when they are unnecessary the author guides and motivates the user to ask why and why not and what if And often more powerful methods can be developed using no more than simple mathematical manipulations For example Cauchy Riemann conditions which are powerful tools in subsonic airfoil theory can be readily extended to handle compressible flows with shocks rotational flows and even three dimensional wing flowfields in a variety of applications to produce powerful formulations that address very difficult problems This breakthrough volume is certainly a must have on every engineer's bookshelf

The Petroleum System, 1989 The Petroleum System Geological Survey (U.S.), 1989 Investigations about porosity in petroleum reservoir rocks are discussed by Schmoker and Gautier Pollastro discusses the uses of clay minerals as exploration tools that help to elucidate basin source rock and reservoir history The status of fission track analysis which is useful for determining the thermal and depositional history of deeply buried sedimentary rocks is outlined by Naeser The various ways workers have attempted to determine accurate ancient and present day subsurface temperatures are summarized with numerous references by Barker Clayton covers three topics 1 the role of kinetic modeling in petroleum exploration 2 biological markers as an indicator of depositional environment of source rocks and composition of crude oils and 3 geochemistry of sulfur in source rocks and petroleum Anders and Hite evaluate the current status of evaporite deposits as a source for crude oil

Multiprobe Pressure Testing and Reservoir Characterization Wilson C Chin, 2024-04-02 Multiprobe Pressure Testing and Reservoir Characterization Pressure Transient Contamination Liquid and Gas Pumping Analysis provides much needed three

dimensional pressure transient simulators for job planning and data interpretation in well logging Discussions cover fundamental concepts present fluid sampling pressure transient and contamination analysis physical concepts and numerical approaches and multiprobe model formulations and validations Other sections cover four probe algorithms including conventional overbalanced and underbalanced drilling applications The final section addresses triple probe algorithms which includes coupled models for pressure and contamination convergence acceleration Notably a further chapter explains how the multiprobe tool s focus on characterizing permeability will promote better use of the reservoir as well as assist with energy storage in underground rock demonstrating how multiprobe tools also facilitate the energy transition from fossil fuels to sustainable geothermal energy Reviews present day needs tool operations and analysis methods along with numerous practical examples and applications Develops a suite of mathematical models algorithms and software from first principles Explains in detail how multiprobe pressure logging is superior to using conventional sensors because direct accurate reservoir characteristics support energy efficient geothermal designs Provides an alternative look at the investigation of unconventional reservoirs not only in terms of hydrocarbon production but also with carbon and energy storage in mind

Measurement While Drilling Wilson C. Chin, 2018-07-23 Trade magazines and review articles describe MWD in casual terms e g positive versus negative pulsers continuous wave systems drilling channel noise and attenuation in very simple terms absent of technical rigor However few truly scientific discussions are available on existing methods let alone the advances necessary for high data rate telemetry Without a strong foundation building on solid acoustic principles rigorous mathematics and of course fast inexpensive and efficient testing of mechanical designs low data rates will impose unacceptable quality issues to real time formation evaluation for years to come This all new revised second edition of an instant classic promises to change all of this The lead author and M I T educated scientist Wilson Chin has written the only book available that develops mud pulse telemetry from first principles adapting sound acoustic principles to rigorous signal processing and efficient wind tunnel testing In fact the methods and telemetry principles developed in the book were recently adopted by one of the world s largest industrial corporations in its mission to redefine the face of MWD The entire engineering history for continuous wave telemetry is covered anecdotal stories and their fallacies original hardware problems and their solutions different noise mechanisms and their signal processing solutions apparent paradoxes encountered in field tests and simple explanations to complicated questions and so on are discussed in complete tell all detail for students research professors and professional engineers alike These include signal processing algorithms signal enhancement methods and highly efficient short and long wind tunnel test methods whose results can be dynamically re scaled to real muds flowing at any speed A must read for all petroleum engineering professionals

Electromagnetic Well Logging Wilson C. Chin, 2014-03-19 Mathematically rigorous computationally fast and easy to use this new approach to electromagnetic well logging gives the reservoir engineer a new dimension to MWD LWD interpretation and tool design

Almost all publications on borehole electromagnetics deal with idealizations that are not acceptable physically. On the other hand, exact models are only available through detailed finite element or finite difference analysis and more often than not simply describe case studies for special applications. In either case, the models are not available for general use and the value of the publications is questionable. This new approach provides a rigorous fully three-dimensional solution to the general problem developed over almost two decades by a researcher familiar with practical applications and mathematical modeling. Completely validated against exact solutions and physics-based checks through over a hundred documented examples, the self-contained model with special built-in matrix solvers and iteration algorithms with a plain English graphical user interface has been optimized to run extremely fast (seconds per run) as opposed to minutes and hours and then automatically presents all electric and magnetic field results through integrated three-dimensional color graphics. In addition to state-of-the-art algorithms, basic utility programs are also developed, such as simple dipole methods, Biot-Savart, large diameter models, nonlinear phase and amplitude interpolation algorithms, and so on. Incredibly useful to oilfield practitioners, this volume is a must-have for serious professionals in the field and all the algorithms have undergone a laborious validation process with real use in the field.

Formation Testing Wilson C. Chin, 2019-03-12. This new volume, the third in Wiley Scrivener's series on formation testing, reviews pressure transient interpretation and contamination analysis methods, providing numerous practical discussions and examples with rigorous formulations solved through exact closed-form analytical solutions. This new volume in the Formation Testing series further develops new methods and processes that are being developed in the oil and gas industry. In the 1990s through 2000s, the author co-developed Halliburton's commercially successful GeoTap™ real-time LWD-MWD method for formation testing and also a parallel method used by China Oilfield Services, which enabled the use of data taken at early times in low mobility and large flowline volume environments to support the important estimation of mobility, compressibility, and pore pressure, which are necessary for flow economics and fluid contact boundaries analyses. This work was later extended through two Department of Energy Small Business Innovation Research awards. While extremely significant, the effect of high pressures in the borehole could not be fully accounted for. The formation tester measures a combination of reservoir and mud pressure and cannot ascertain how much is attributed to unimportant borehole effects. The usual approach is simply wait until the effects dissipate, which may require hours, which imply high drilling and logging costs plus increased risks in safety and tool loss. The author has now modeled this supercharge effect and developed a powerful mathematical algorithm that fully accounts for mud interactions. In short, accurate predictions for mobility, compressibility, and pore pressure can now be undertaken immediately after an interval is drilled without waiting. This groundbreaking new work is a must-have for any petroleum reservoir or mud engineer working in the industry solving day-to-day problems that he or she encounters in the field.

Modern Borehole Analytics Wilson C. Chin, 2017-10-12. Written by a leading industry specialist, a must-have for drilling specialists, petroleum engineers, and field practitioners, this is the only

book providing practical rigorous and validated models for general annular flows eccentric geometries non Newtonian fluids yield stresses multiphase effects and transient motions and flow rates and includes new methods describing mudcake integrity and pore pressure for blowout assessment Wilson C Chin has written some of the most important and well known books in the petroleum industry These books whose research was funded by the U S Department of Energy and several international petroleum corporations have set very high standards Many algorithms are used at leading oil service companies to support key drilling and well logging applications For the first time the physical models in these publications founded on rigorous mathematics and numerical methods are now available to the broader industry students petroleum engineers drillers and faculty researchers The presentations are written in easy to understand language with few equations offering simplified explanations of difficult problems and solutions which provide key insights into downhole physical phenomena through detailed tabulations and color graphics displays Practical applications such as cuttings transport pressure control mudcake integrity formation effects in unconventional applications and so on are addressed in great detail offering the most practical answers to everyday problems that the engineer encounters The book does not stop at annular flow In fact the important role of mudcake growth and thickness in enabling steady flow in the annulus is considered as is the role of low formation permeability in affecting mud filtration cake growth and fluid sealing at the sandface This is the first publication addressing the big picture a first drawn from the author s related research in multiple disciplines such as drilling rheology formation testing and reservoir simulation A must have for any petroleum engineer petroleum professional or student this book is truly a groundbreaking volume that is sure to set new standards

Multiprobe Pressure Analysis and Interpretation
Tao Lu, Minggao Zhou, Yongren Feng, Yuqing Yang, 2021-06-11 A popular 1990s formation tester with a single pumping probe and one passive observation port displaced 180 deg away designed to measure pressures at two locations for permeability prediction encounters well known detection problems at low mobilities This book using aerodynamics methods explains why and also reveals the existence of a wide stagnation zone that hides critical formation details And it does much more An exact analytical solution is used to validate a new transient three dimensional finite difference model for more general testers one that guides new hardware designs with independent azimuthally displaced probes having with different rates flow schedules and nozzle geometries supports interpretation and formation evaluation and assists with job planning at the rigsite The methods also apply to conventional tools allowing comparisons between older and newer technologies Importantly the authors introduce a completely new three probe design with independently operable active elements that eliminate all older tool deficiencies Numerous subjects are discussed such as pressure transient analyses with multiple operating probes supercharge analysis with invasion and mudcake buildup accurate and rapid calculations that allow more than 1 000 simulations per minute extremely rapid batch mode calculations using convergence acceleration methods rapid fluid withdrawal with minimal dissolved gas release dip angle heterogeneity and anisotropy evaluation and many other topics In

addition tool operation sequences detailed engineering and design functions field test procedures and laboratory facilities are discussed and illustrated in photographs that go behind the scenes at one of the world's largest international oil service companies The book hopes to educate new engineers and veteran engineers alike in hardware and software design at a time when increasing efficiency is crucial and doing more with less represents the new norm

Resistivity Modeling Wilson C. Chin, 2016-12-22 Resistivity logging represents the cornerstone of modern petroleum exploration providing a quantitative assessment of hydrocarbon bearing potential in newly discovered oilfields Resistivity is measured using AC coil tools as well as by focused DC laterolog and micro pad devices and later extrapolated to provide oil saturation estimates related to economic productivity and cash flow Interpretation and modeling methods highly lucrative are shrouded in secrecy by oil service companies often these models are incorrect and mistakes perpetuate themselves over time This book develops math modeling methods for layered anisotropic media providing algorithms validations and numerous examples New electric current tracing tools are also constructed which show how well or poorly DC tools probe intended anisotropic formations at different dip angles The approaches discussed provide readers with new insights into the limitations of conventional tools and methods and offer practical and rigorous solutions to several classes of problems explored in the book Traditionally Archie's law is used to relate resistivity to water saturation but only on small core sample spatial scales The second half of this book introduces methods to calculate field wide water saturations using modern Darcy flow approaches and then via Archie's law develops field wide resistivity distributions which may vary with time How large scale resistivity distributions can be used in more accurate tool interpretation and reservoir characterization is considered at length The book also develops new methods in time lapse logging where timewise changes to resistivity response arising from fluid movements can be used to predict rock and fluid flow properties

Supercharge, Invasion, and Mudcake Growth in Downhole Applications Wilson C. Chin, Tao Lu, Xiaofei Qin, Yongren Feng, Yanmin Zhou, 2021-06-29 Mysterious supercharge effects encountered in formation testing pressure transient analysis and reservoir invasion mudcake growth dynamic filtration stuck pipe remediation and so on are often discussed in contrasting petrophysical versus drilling contexts However these effects are physically coupled and intricately related The authors focus on a comprehensive formulation provide solutions for different specialized limits and develop applications that illustrate how the central ideas can be used in seemingly unrelated disciplines This approach contributes to a firm understanding of logging and drilling principles Fortran source code furnished where applicable is listed together with recently developed software applications and conveniently summarized throughout the book In addition common incorrect methods used in the industry are re-analyzed and replaced with more accurate models which are then used to address challenging field objectives Sophisticated mathematics is explained in down to earth terms but empirical validations in this case through Catscan experiments are used to keep predictions honest Similarly early time low mobility permeability prediction models used in formation testing several invented by one of the

authors are extended to handle supercharge effects in overbalanced drilling and near well pressure deficits encountered in underbalanced drilling. These methods are also motivated by reality. For instance overpressures of 2 000 psi and underpressures near 500 psi are routinely reported in field work thus imparting a special significance to the methods reported in the book. This new volume discusses old problems and modern challenges, formulates and develops advanced models applicable to both drilling and petrophysical objectives. The presentation focuses on central unifying physical models which are carefully formulated and mathematically solved. The wealth of applications, examples and supporting software discussed provides readers with a unified focus behind daily work activities, emphasizing common features and themes rather than unrelated methods and work flows. This comprehensive book is must reading for every petroleum engineer.

Wave Propagation in Drilling, Well Logging and Reservoir Applications Wilson C. Chin, 2014-09-19. Wave propagation is central to all areas of petroleum engineering e.g. drilling vibrations, MWD, mud pulse telemetry, swab surge, geophysical ray tracing, ocean and current interactions, electromagnetic wave and sonic applications in the borehole but rarely treated rigorously or described in truly scientific terms even for a single discipline. Wilson Chin, an MIT and Caltech educated scientist who has consulted internationally, provides an integrated comprehensive yet readable exposition covering all of the cited topics, offering insights, algorithms and validated methods never before published. A must on every petroleum engineering bookshelf. In particular, the book delivers drilling vibrations models coupling axial, torsional and lateral motions that predict rate of penetration, bit bounce and stick slip as they depend on rock-bit interaction and bottomhole assembly properties. Explains why catastrophic lateral vibrations at the neutral point cannot be observed from the surface even in vertical wells but providing a proven method to avoid them. Demonstrates why Fermat's principle of least time used in geophysics applies to non-dissipative media only but using the kinematic wave theory developed at MIT derives powerful methods applicable to general attenuative inhomogeneous media. Develops new approaches to mud acoustics and applying them to MWD telemetry modeling and strong transients in modern swab surge applications. Derives new algorithms for borehole geophysics interpretation e.g. R_h and R_v in electromagnetic wave and permeability in Stoneley waveform analysis and outlines many more applications e.g. wave loadings on offshore platforms, classical problems in wave propagation and extensions to modern kinematic wave theory. These disciplines important to all field oriented activities are not treated as finite element applications that are simply gridded, numbers crunched and displayed but as scientific disciplines deserving of clear explanation. General results are carefully motivated, derived and applied to real world problems with results demonstrating the importance and predictive capabilities of the new methods.

Managed Pressure Drilling Wilson C. Chin, 2012-01-25. Managed Pressure Drilling Operations is a significant technology worldwide and beginning to make an impact all over the world. Often reservoir and drilling engineers are faced with the decision on how best to construct a well to exploit zones of interest while seeking to avoid drilling problems that contribute to reservoir damage or cause loss of hole. The decision to pursue a MPD operation is

based on the intent of applying the most appropriate technology for the candidate and entails either an acceptance of influx to the surface or avoidance of influx into the wellbore In today s exploration and production environment drillers must now drill deeper faster and into increasingly harsher environments where using conventional methods could be counter productive at best and impossible at worst Managed Pressure Drilling MPD is rapidly gaining popularity as a way to mitigate risks and costs associated with drilling in harsh environments If done properly MPD can improve economics for any well being drilled by reducing a rig s nonproductive time Written for engineers drilling managers design departments and operations personnel Managed Pressure Drilling Modeling is based on the author s on experience and offers instruction on planning designing and executing MPD projects Compact and readable the book provides a step by step methods for understanding and solve problems involving variables such as backpressure variable fluid density fluid rheology circulating friction hole geometry and drillstring diameter All MPD variations are covered including Constant Bottomhole Pressure Pressurized MudCap Drilling and Dual Gradient Drilling Case histories from actual projects are designed and analyzed using proprietary simulation software online With this book in hand drilling professionals gain knowledge of the various variations involved in managed pressure drilling operations understand the safety and operational aspects of a managed pressure drilling project and be able to make an informed selection of all equipment required to carry out a managed pressure drilling operation Case histories from actual projects are designed and analyzed using proprietary simulation software online Clearly explains the safety and operational aspects of a managed pressure drilling project Expert coverage of the various variations involved in managed pressure drilling operations Numerical tools and techniques needed for applying MPD principles and practices to individual projects

Biofluids Modeling Wilson C. Chin, Jamie A. Chin, 2023-12-12 BIOFLUIDS MODELING The first book offering analytical and modern computational solutions to important biofluids problems such as non Newtonian flows in blood vessels clogged arteries and veins bifurcated arteries and veins arbitrary stent geometries tissue properties prediction and porous media Darcy flow simulation in large scale organ analysis this is a must have for any library This book introduces new methods for biofluids modeling and biological engineering The foregoing subjects are treated rigorously with all modeling assumptions stated and solutions clearly derived But that s not all Key supporting physics based ideas algorithmic details and software design interfaces are equally emphasized in order to support our overriding objective of getting the anatomical and clinical information that physicians need Importantly this volume provides a self contained exposition that includes all required biological concepts plus the background preparation needed in fluid mechanics basic differential equations and modern numerical analysis The presentation style will appeal to medical practitioners researchers biomedical engineers and students interested in quantitative fluid flow modeling as well as engineering students eager to learn about advances in a rapidly growing and changing biological science As such the book represents must reading suitable at the advanced undergraduate level and motivated readers should be able to embark on related research following guided

study Gas Wettability of Reservoir Rock Surfaces with Porous Media Guancheng Jiang, 2018-06-13 Gas Wettability of Reservoir Rock Surfaces with Porous Media compiles critical information on this complex topic thus helping engineers more successfully face technical field challenges in oil and gas recovery Combining both theoretical and practical knowledge this concise reference bridges basic concepts with factors affecting gas wettability also covering polymer type gas wetting reversal agents in technical detail and discussing gas wettability's influence on capillary force oil water distribution and gas wettability's application in petroleum engineering operations from both domestic and international projects This book delivers the critical concepts methods mechanisms and practical technology needed for today's complex oil and gas assets Helps readers further develop and improve basic theory on petrophysics and reservoir engineering Covers various aspects like the developmental history of gas wettability and the concept and evaluation of gas wettability of oil and gas reservoir rock surfaces Creates a bridge between theoretical knowledge and practical application with content covering new theories methodologies and the technologies used in drilling completion and reservoir engineering **Reservoir Simulation and Well Interference** Wilson C. Chin, Xiaoying Zhuang, 2020-03-17 Co written by a world renowned petroleum engineer this breakthrough new volume teaches engineers how to configure place and produce horizontal and multilateral wells in geologically complicated reservoirs select optimal well spacings and fracture separations and how to manage factors influencing well productivity using proven cost effective and user friendly simulation methods Charged in the 1990s with solving some of petroleum engineering's biggest problems that the industry deemed unsolvable the authors of this innovative new volume solved those problems not just using a well published math model but one optimized to run rapidly the first time every time This not only provides numerical output but production curves and color pressure plots automatically And each in a single hour of desk time Using their Multisim software that is featured in this volume secondary school students at the Aldine Independent School District delivered professional quality simulations in a training program funded by some of the largest energy companies in the world Think what you as a professional engineer could do in your daily work Valuable with or without the software this volume is the cutting edge of reservoir engineering today prefacing each chapter with a trade journal summary followed by hands on details allowing readers to replicate and extend results for their own applications This volume covers parent child multilateral well and fracture flow interactions reservoir flow analysis many other issues involving fluid flow fracturing and many other common unsolvable problems that engineers encounter every day It is a must have for every engineer's bookshelf **Measurement While Drilling (MWD) Signal Analysis, Optimization and Design** Wilson C. Chin, Yinao Su, Limin Sheng, Lin Li, Hailong Bian, Rong Shi, 2014-04-16 Trade magazines and review articles describe MWD in casual terms e g positive versus negative pulsers continuous wave systems drilling channel noise and attenuation in very simple terms absent of technical rigor However few truly scientific discussions are available on existing methods let alone the advances necessary for high data rate telemetry Without a strong foundation building on solid acoustic

principles rigorous mathematics and of course fast inexpensive and efficient testing of mechanical designs low data rates will impose unacceptable quality issues to real time formation evaluation for years to come This book promises to change all of this The lead author and MIT educated scientist Wilson Chin and Yinao Su Academician Chinese Academy of Engineering and other team members have written the only book available that develops mud pulse telemetry from first principles adapting sound acoustic principles to rigorous signal processing and efficient wind tunnel testing In fact the methods and telemetry principles developed in the book were recently adopted by one of the world's largest industrial corporations in its mission to redefine the face of MWD The entire engineering history for continuous wave telemetry is covered anecdotal stories and their fallacies original hardware problems and their solutions different noise mechanisms and their signal processing solutions apparent paradoxes encountered in field tests and simple explanations to complicated questions and so on are discussed in complete detail for students research professors and professional engineers alike These include signal processing algorithms signal enhancement methods and highly efficient short and long wind tunnel test methods whose results can be dynamically re-scaled to real muds flowing at any speed A must read for all petroleum engineering professionals

IFIP International Conference "Quantitative Methods for Reservoir Characterization - Advances in Geophysics and Reservoir Engineering for Data Integration and Uncertainty Assessment Institut français du pétrole, 2007

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Quantitative Methods In Reservoir Engineering Introduction

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