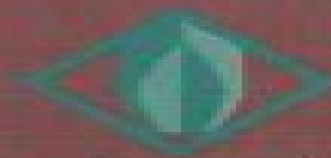
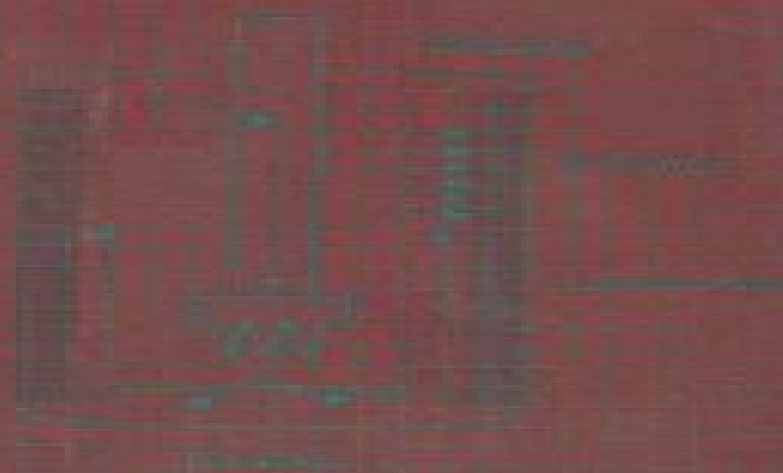


# Formation Invasion



— With applications to —  
measurement-while-drilling,  
time lapse analysis, and  
formation damage



**Wilson C. Chin**

# Formation Invasion With Applications To Measurementwhiledrilling Time Lapse Analysis And Formation Damage

**Wilson C. Chin**



## **Formation Invasion With Applications To Measurement while drilling Time Lapse Analysis And Formation Damage:**

**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 **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 M I T 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.

**Formation Invasion** Wilson C. Chin, 1995. This book proposes solutions to decades-old problems such as static piston-like filtration in a radial reservoir with simultaneous transient mudcake buildup, filtrate invasion and front displacement of dissimilar fluids. Formation invasion is an area of interest to log analysts, both resistivity and nuclear MWD measurement while drilling practitioners concerned with the physical meaning of their data, production engineers concerned with formation damage, reservoir engineers concerned with formation evaluation information and drillers concerned with mudcake. This groundbreaking book, requiring only a background in undergraduate petroleum engineering, presents powerful new models for invasion and log interpretation. It integrates reservoir simulation with moving boundary value problem analysis to produce numerous flow models integral to MWD invasion modeling, time-lapse analysis and mudcake damage assessment. Derives closed-form solutions for dynamically coupled mudcake growth and radial front motion for piston-like displacement of dissimilar fluids. Develops analytical models for dynamic filtration and equilibrium mudcake thickness. Explains finite difference analysis showing how numerical methods extend exact models.

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 **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 Petroleum Engineer's Guide to Oil Field Chemicals and Fluids

Johannes Fink,2015-08-31 The oil and gas engineer on the job requires knowing all the available oil field chemicals and fluid applications that are applicable to the operation Updated with the newest technology and available products Petroleum Engineer s Guide to Oil Field Chemicals and Fluids Second Edition delivers all the necessary lists of chemicals by use their basic components benefits and environmental implications In order to maintain reservoir protection and peak well production performance operators demand to know all the options that are available Instead of searching through various sources Petroleum Engineer s Guide to Oil Field Chemicals and Fluids Second Edition presents a one stop non commercialized approach by organizing the products by function matching the chemical to the process for practical problem solving and extending the coverage with additional resources and supportive materials Covering the full spectrum including fluid loss additives drilling muds cement additives and oil spill treating agents this must have reference answers to every oil and gas operation with more options for lower costs safer use and enhanced production Effectively locate and utilize the right

chemical application specific to your oil and gas operation with author's systematic approach by use Gain coverage on all oil field chemicals and fluids needed throughout the entire oil and gas life cycle including drilling production and cementing Understand environmental factors and risks for oil field chemicals along with pluses and minuses of each application to make the best and safest choice for your operation Oilfield Chemistry and its Environmental Impact Henry A.

Craddock,2018-08-06 Consolidates the many different chemistries being employed to provide environmentally acceptable products through the upstream oil and gas industry This book discusses the development and application of green chemistry in the oil and gas exploration and production industry over the last 25 years bringing together the various chemistries that are utilised for creating suitable environmental products Written by a highly respected consultant to the oil and gas industry it introduces readers to the principles and development of green chemistry in general and the regulatory framework specific to the oil and gas sector in the North Sea area and elsewhere in the world It also explores economic drivers pertaining to the application of green chemistry in the sector Topics covered in Oilfield Chemistry and its Environmental Impact include polymer chemistry surfactants and amphiphiles phosphorus chemistry inorganic salts low molecular weight organics silicon chemistry and green solvents It also looks at sustainability in an extractive industry examining the approaches used and the other methodologies that could be applied in the development of better chemistries along with discussions about where the application of green chemistry is leading in this industry sector Provides the reader with a ready source of reference when considering what chemistries are appropriate for application to oilfield problems and looking for green chemistry solutions Brings together the pertinent regulations which workers in the field will find useful alongside the chemistries which meet the regulatory requirements Written by a well known specialist with a combined knowledge of chemistry manufacturing procedures and environmental issues Oilfield Chemistry and its Environmental Impact is an excellent book for oil and gas industry professionals as well as scientists academic researchers students and policy makers **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      *Computational Rheology for Pipeline and Annular Flow* Wilson C Chin,2001-07-30

*Computational Rheology for Pipeline and Annular Flow* develops and applies modern analytical and computational finite difference methods for solving flow problems in drilling and production It also provides valuable insights into flow assurance analysis in subsea pipeline design Using modeling techniques that simulate the motion of non Newtonian fluids e g power law Bingham plastic and Herschel Bulkley flows this book presents proven annular flow methodologies for cuttings transport and stuck pipe analysis based on detailed experimental data obtained from highly deviated and horizontal wells These methods are applied for highly eccentric borehole geometries to the design of pipeline bundles in subsea applications where such annular configurations arise in velocity and thermal modeling applications Also covered extensively are the design and modeling of pipelines having non circular cross sections where deviations from ideal circular geometries arise from plugging due to wax deposition and the presence of hydrates and asphaltenes As in the case of annular flows the new algorithms apply to fluids with general rheological description for example the methods show very precisely how flow rate and pressure gradient vary nonlinearly in practical problem situations Provides valuable insights into flow assurance analysis Contains new algorithms on annular flows and fluids with general rheological descriptions supply solutions to practical problems

**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

*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

*Reservoir Formation Damage* Faruk Civan, 2023-04-07 Reservoir Formation Damage Fundamentals Modeling Assessment and Mitigation Fourth Edition gives engineers a structured layout to predict and improve productivity providing strategies recent developments and methods for more successful operations Updated with many new chapters including completion damage effects for fractured wells flow assurance and fluid damage effects the book will help engineers better tackle today s assets Additional new chapters include bacterial induced formation damage new aspects of chemically induced formation damage and new field application designs and cost assessments for measures



and strategies Additional procedures for unconventional reservoirs get the engineer up to date Structured to progress through your career Reservoir Formation Damage Fourth Edition continues to deliver a trusted source for both petroleum and reservoir engineers Covers new applications through case studies and test questions Bridges theory and practice with detailed illustrations and a structured progression of chapter topics Considers environmental aspects with new content on water control conformance and produced water reinjection

**Quantitative Methods in Reservoir Engineering** Wilson C Chin, 2016-10-01 Quantitative Methods in Reservoir Engineering Second Edition brings together the critical aspects of the industry to create more accurate models and better financial forecasts for oil and gas assets Updated to cover more practical applications related to intelligent infill drilling optimized well pattern arrangement water flooding with modern wells and multiphase flow this new edition helps reservoir engineers better lay the mathematical foundations for analytical or semi analytical methods in today's more difficult reservoir engineering applications Authored by a worldwide expert on computational flow modeling this reference integrates current mathematical methods to aid in understanding more complex well systems and ultimately guides the engineer to choose the most profitable well path The book delivers a valuable tool that will keep reservoir engineers up to speed in this fast paced sector of the oil and gas market Stay competitive with new content on unconventional reservoir simulation Get updated with new material on formation testing and flow simulation for complex well systems and paths Apply methods derived from real world case studies and calculation examples

**Formation Testing** Wilson C. Chin, Yanmin Zhou, Yongren Feng, Qiang Yu, Lixin Zhao, 2014-02-14 The only book available for the reservoir or petroleum engineer covering formation testing with algorithms for wireline and LWD reservoir analysis developed for transient pressure contamination modeling permeability and pore pressure prediction Traditional well logging methods such as resistivity acoustic nuclear and NMR provide indirect information relating to fluid and formation properties However the formation tester offered in wireline and MWD LWD operations is different It collects actual downhole fluid samples for surface analysis and through pressure transient analysis provides direct measurements for pore pressure mobility permeability and anisotropy These are vital to real time drilling safety geosteering hydraulic fracturing and economic analysis Methods for formation testing analysis while commercially important and accounting for a substantial part of service company profits are shrouded in secrecy Many are poorly constructed and because details are not available industry researchers are not able to improve on them Formation Testing explains conventional models and develops new more powerful algorithms for early time analysis More importantly it addresses a critical area in sampling related to time required to pump clean samples using rigorous multiphase flow techniques All of the methods are explained in complete detail Equations are offered for users to incorporate in their own models but for those needing immediate answers convenient easy to use software is available The lead author is a well known petrophysicist with hands on experience at Schlumberger Halliburton BP Exploration and other companies His work is used commercially at major oil service companies

and important extensions to his formation testing models have been supported by prestigious grants from the U S Department of Energy His latest collaboration with China National Offshore Oil Corporation marks an important turning point where advanced simulation models and hardware are evolving side by side defining a new generation of formation testing logging instruments Providing more than formulations and solutions this book offers a close look at behind the scenes formation tester development as the China National Offshore Oil Corporation opens up its research engineering and manufacturing facilities through a collection of never before seen photographs showing how formation testing tools are developed from start to finish

**Reservoir Engineering in Modern Oilfields** Wilson C. Chin, 2016-08-11 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

**Applied Mechanics Reviews**, 1995

**Multiprobe Pressure Analysis and Interpretation** Tao Lu, Minggao Zhou, Yongren Feng, Yuqing Yang, 2021-06-29 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

**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

**Managed Pressure Drilling** Wilson C Chin,2012-01-17 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

Hydraulic Fracturing Chemicals and Fluids Technology Johannes Fink, 2013-08-14 When classifying fracturing fluids and their additives it is important that production operation and completion engineers understand which chemical should be utilized in different well environments A user's guide to the many chemicals and chemical additives used in hydraulic fracturing operations Hydraulic Fracturing Chemicals and Fluids Technology provides an easy to use manual to create fluid formulations that will meet project specific needs while protecting the environment and the life of the well Fink creates a concise and comprehensive reference that enables the engineer to logically select and use the appropriate chemicals on any hydraulic fracturing job The first book devoted entirely to hydraulic fracturing chemicals Fink eliminates the guesswork so the engineer can select the best chemicals needed on the job while providing the best protection for the well workers and environment Pinpoints the specific compounds used in any given fracturing operation Provides a systematic approach to classifying fracturing fluid technology to meet specific project needs Eliminates guesswork with easy to understand language on selection and components of hydraulic fracturing chemicals Addresses environmental aspects of chemicals to safeguard employees and protect the environment

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