

SECOND EDITION

Reservoir Formation Damage

FUNDAMENTALS,
MODELING, ASSESSMENT,
AND MITIGATION

Faruk Civan

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Reservoir Formation Damage Second Edition

Wilson C. Chin



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Reservoir Formation Damage Faruk Civan, Faruk Civan PhD, 2011-08-30 Reservoir Formation Damage Second edition is a comprehensive treatise of the theory and modeling of common formation damage problems and is an important guide for research and development laboratory testing for diagnosis and effective treatment and tailor fit design of optimal strategies for mitigation of reservoir formation damage The new edition includes field case histories and simulated scenarios demonstrating the consequences of formation damage in petroleum reservoirs Faruk Civan Ph D is an Alumni Chair Professor in the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma in Norman Dr Civan has received numerous honors and awards including five distinguished lectureship awards and the 2003 SPE Distinguished Achievement Award for Petroleum Engineering Faculty Petroleum engineers and managers get critical material on evaluation prevention and remediation of formation damage which can save or cost millions in profits from a mechanistic point of view State of the Art knowledge and valuable insights into the nature of processes and operational practices causing formation damage Provides new strategies designed to minimize the impact of and avoid formation damage in petroleum reservoirs with the newest drilling monitoring and detection techniques

Petroleum Reservoir Rock and Fluid Properties, Second Edition Abhijit Y. Dandekar, 2013-02-21 A strong foundation in reservoir rock and fluid properties is the backbone of almost all the activities in the petroleum industry Suitable for undergraduate students in petroleum engineering Petroleum Reservoir Rock and Fluid Properties Second Edition offers a well balanced in depth treatment of the fundamental concepts and practical aspects that encompass this vast discipline New to the Second Edition Introductions to Stone II three phase relative permeability model and unconventional oil and gas resources Discussions on low salinity water injection saturated reservoirs and production trends of five reservoir fluids impact of mud filtrate invasion and heavy organics on samples and flow assurance problems due to solid components of petroleum Better plots for determining oil and water Corey exponents from relative permeability data Inclusion of Rachford Rice flash function Plateau equation and skin effect Improved introduction to reservoir rock and fluid properties Practice problems covering porosity combined matrix channel and matrix fracture permeability radial flow equations drilling muds on fluid saturation wettability concepts three phase oil relative permeability petroleum reservoir fluids various phase behavior concepts phase behavior of five reservoir fluids and recombined fluid composition Detailed solved examples on absolute permeability live reservoir fluid composition true boiling point extended plus fractions properties viscosity based on compositional data and gas liquid surface tension Accessible to anyone with an engineering background the text reveals the importance of understanding rock and fluid properties in petroleum engineering Key literature references mathematical expressions and laboratory measurement techniques illustrate the correlations and influence between the various properties Explaining how to acquire accurate and reliable data the author describes coring and fluid sampling methods issues related to handling samples for core analyses and PVT studies He

also highlights core and phase behavior analysis using laboratory tests and calculations to elucidate a wide range of properties Production Chemicals for the Oil and Gas Industry, Second Edition Malcolm A. Kelland, 2014-03-13 Production chemistry issues result from changes in well stream fluids both liquid and gaseous during processing Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved Modern production methods the need to upgrade crude oils of variable quality and environmental constraints demand chemical solutions Thus oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems Production Chemicals for the Oil and Gas Industry Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore Incorporating the large amount of research and applications since the first edition this new edition reviews all past and present classes of production chemicals providing numerous difficult to obtain references especially SPE papers and patents Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance information that is very useful for research and development Each updated chapter begins by introducing a problem such as scale or corrosion for which there is a production chemical The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in depth descriptions of the structural classes of relevant production chemicals He also mentions when available the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field This edition includes two new chapters and nearly 50 percent more references *Standard Handbook of Petroleum and Natural Gas Engineering: Volume 2* William C. Lyons, 1996-10-16 Volume 2 presents the industry standards and practices for reservoir engineering and production engineering It also looks at all aspects of petroleum economics and shows how to estimate oil and gas reserves **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 Formation Testing Wilson C. Chin,2019-03-14 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 Proceedings [of The] International Symposium on Formation Damage Control ,1996 Modern Borehole Analytics Wilson C. Chin,2017-10-18 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 *Handbook of Frozen Food*

Processing and Packaging, Second Edition Da-Wen Sun, 2011-10-19 Consumer demand for a year round supply of seasonal produce and ready made meals remains the driving force behind innovation in frozen food technology Now in its second edition *Handbook of Frozen Food Processing and Packaging* explores the art and science of frozen foods and assembles essential data and references relied upon by scientists in universities and research institutions Highlights in the Second Edition include Original chapters revised and updated with the latest developments New section on Emerging Technologies in Food Freezing with chapters on ultrasound accelerated freezing high pressure shift freezing electrostatic field assisted food freezing and antifreeze proteins New section on Trends in Frozen Food Packaging with chapters on active packaging intelligent packaging vacuum packaging and edible coatings and films and their applications on frozen foods This volume continues the tradition of the benchmark first edition capturing the latest developments on the cutting edge of frozen food science In addition to updated coverage of quality and safety issues and monitoring and measuring techniques it highlights emerging technologies and trends all in the format that made the previous edition so popular It offers the tools needed to develop new and better products keeping up with consumer demand for safe and convenient frozen foods *Handbook of Plant and Crop Stress, Second Edition* Mohammad Pessarakli, 1999-05-19 Detailing interrelated topics this work addresses issues and concerns related to plant and crop stress This edition includes information on pH stress temperature stress water deficit conditions carotenoids and stress light stress pollution stress agrichemical stress oxidative damage to proteins UV B

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