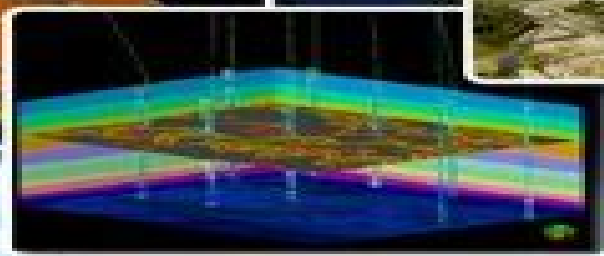
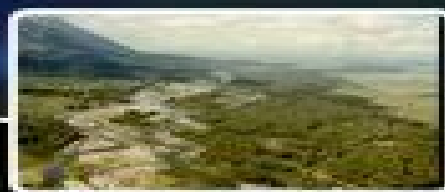
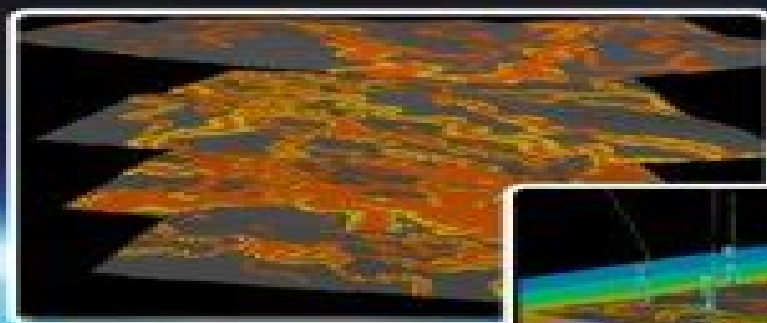


Uncertainty Analysis and Reservoir Modeling

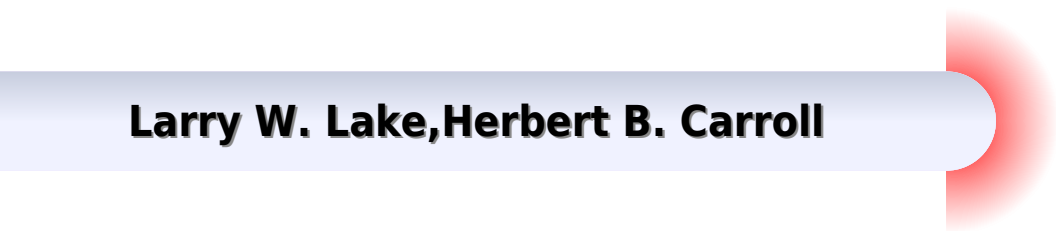
Developing and Managing Assets in an Uncertain World



Edited by Y. Zee Ma and Paul La Pointe

Uncertainty Analysis In Reservoir Characterization M96 Aapg Memoir

Larry W. Lake, Herbert B. Carroll



Uncertainty Analysis In Reservoir Characterization M96 Aapg Memoir:

Uncertainty Analysis and Reservoir Modeling Y. Zee Ma, Paul R. La Pointe, 2011-12-20 Markov Chain Monte Carlo Algorithm, Integrated 4D Seismic Reservoir Characterization and Uncertainty Analysis in a Bayesian Framework Tiancong Hong, 2008 **Introduction to Geological Uncertainty Management in Reservoir Characterization and**

Optimization Reza Yousefzadeh, Alireza Kazemi, Mohammad Ahmadi, Jebrael Gholinezhad, 2023-04-08 This book explores methods for managing uncertainty in reservoir characterization and optimization. It covers the fundamentals, challenges, and solutions to tackle the challenges made by geological uncertainty. The first chapter discusses types and sources of uncertainty and the challenges in different phases of reservoir management along with general methods to manage it. The second chapter focuses on geological uncertainty, explaining its impact on field development and methods to handle it using prior information, seismic and petrophysical data, and geological parametrization. The third chapter deals with reducing geological uncertainty through history matching and the various methods used, including closed loop management, ensemble assimilation, and stochastic optimization. The fourth chapter presents dimensionality reduction methods to tackle high dimensional geological realizations. The fifth chapter covers field development optimization using robust optimization, including solutions for its challenges such as high computational cost and risk attitudes. The final chapter introduces different types of proxy models in history matching and robust optimization, discussing their pros and cons and applications. The book will be of interest to researchers and professors, geologists, and professionals in oil and gas production and exploration. **Uncertainty**

Evaluation and Integration of Dynamic Data in Reservoir Characterization Arjun Bathija, 1998 **Uncertainty Analysis in Hydrocarbon Reservoir Studies** Mohammad Jahidnezhad, 2014-01-17 Out of print. Unavailable for order. production and distribution. Applied Techniques to Integrated Oil and Gas Reservoir Characterization Enwenode Onajite, 2021-04-14 Applied Techniques to Integrated Oil and Gas Reservoir Characterization: A Problem Solution Discussion with Experts presents challenging questions encountered by geoscientists in their day to day work in the exploration and development of oil and gas fields and provides potential solutions from experts working in the field. Covers Amplitude Versus Offset (AVO) well to seismic tie, phase of seismic data, seismic inversion studies, pore pressure prediction, rock physics, and exploration geology. The text examines challenges in the industry as well as the solutions and techniques used to overcome those challenges. Over the past several years, there has been a growing integration of geophysical, geological, and reservoir engineering production and petrophysical data to predict and determine reservoir properties. This includes reservoir extent and sand development away from the well bore as well as in unpenetrated prospects leading to optimization planning for field development. As such, geoscientists now must learn the technology processes and challenges involved within their specific functions in order to complete day to day activities. Presents a thorough understanding of the requirements and issues of various disciplines in characterizing a wide spectrum of reservoirs. Includes real life problems and challenging

questions encountered by geoscientists in their day to day work along with answers from experts working in the field Provides an integrated approach among different disciplines geology geophysics petrophysics and petroleum engineering

Reservoir Characterization Larry W. Lake, Herbert B. Carroll, 1986 Reservoir Characterization, Modeling and Quantitative Interpretation Shib Sankar Ganguli, V.P. Dimri, 2023-10-27 Reservoir Characterization Modeling and Quantitative Interpretation Recent Workflows to Emerging Technologies offers a wide spectrum of reservoir characterization techniques and technologies focusing on the latest breakthroughs and most efficient methodologies in hydrocarbon exploration and development Topics covered include 4D seismic technologies AVAz inversion fracture characterization multiscale imaging technologies static and dynamic reservoir characterization among others The content is delivered through an inductive approach which will help readers gain comprehensive insights on advanced practices and be able to relate them to other subareas of reservoir characterization including CO₂ storage and data driven modeling This will be especially useful for field scientists in collecting and analyzing field data prospect evaluation developing reservoir models and adopting new technologies to mitigate exploration risk They will be able to solve the practical and challenging problems faced in the field of reservoir characterization as it will offer systematic industrial workflows covering every aspect of this branch of Earth Science including subsurface geoscientific perspectives of carbon geosequestration This resource is a 21st Century guide for exploration geologists geoscience students at postgraduate level and above and petrophysicists working in the oil and gas industry Covers the latest and most effective technologies in reservoir characterization including Avo analysis AVAz inversion wave field separation and Machine Learning techniques Provides a balanced blend of both theoretical and practical approaches for solving challenges in reservoir characterization Includes detailed industry standard practical workflows along with code structures for algorithms and practice exercises Uncertainty Analysis of Reservoir Operation [?], 2014

Reservoir Characterization and History Matching with Uncertainty Quantification Using Ensemble-based Data Assimilation with Data Re-parameterization Mingliang Liu, 2021 Reservoir characterization and history matching are essential steps in various subsurface applications such as petroleum exploration and production and geological carbon sequestration aiming to estimate the rock and fluid properties of the subsurface from geophysical measurements and borehole data Mathematically both tasks can be formulated as inverse problems which attempt to find optimal earth models that are consistent with the true measurements The objective of this dissertation is to develop a stochastic inversion method to improve the accuracy of predicted reservoir properties as well as quantification of the associated uncertainty by assimilating both the surface geophysical observations and the production data from borehole using Ensemble Smoother with Multiple Data Assimilation To avoid the common phenomenon of ensemble collapse in which the model uncertainty would be underestimated we propose to re parameterize the high dimensional geophysics data with data order reduction methods for example singular value decomposition and deep convolutional autoencoder and then perform the models updating efficiently

in the low dimensional data space We first apply the method to seismic and rock physics inversion for the joint estimation of elastic and petrophysical properties from the pre stack seismic data In the production or monitoring stage we extend the proposed method to seismic history matching for the prediction of porosity and permeability models by integrating both the time lapse seismic and production data The proposed method is tested on synthetic examples and successfully applied in petroleum exploration and production and carbon dioxide sequestration

Uncertainty Analysis of the Effects of Reservoir Fluids on Seismic Properties William Ampomah,2012 **AAPG Hedberg Research Conference** ,2000

Reservoir Characterization of Non Gaussian Field Using Combined Ensemble Based Method Samson B. Folarin,2020 The proper reservoir characterization was a decade long challenge for both geoscientists and reservoir engineers because of the complex subsurface structures Ensemble Kalman filter was studied rigorously as a promising method for quantify the reservoir uncertainty quantification Because of its computational efficiency and easy implementation on any simulator petroleum engineers recommended ensemble Kalman filter EnKF as a useful history matching technique It failed because of the Gaussian assumption and the inconsistency that exist between the updated static and dynamics parameters which violate the field s material balance Wang et al 2012 introduced an improved method called half iterative ensemble Kalman filter HIEnKF to overcome the shortcomings of the EnKF The new method HIEnKF appears to be promising in the field of history matching but has its drawback Mary Wheeler et al 2013 introduced the ensemble smoother method to overcome the computational cost induced by HIEnKF Various challenges arise from the existing methods that motivated us to propose new techniques that can give a promising result in petroleum engineering We designed our first method by considering the advantage of half iterative EnKF and ensemble smoother The combined half iterative EnKF and ensemble smoother CoHIEnKFS characterize a Gaussian field better than the existing methods Previous work has shown poor characterization on reservoirs with non Gaussian permeability distribution which fails to satisfy HIEnKF Gaussian assumption We apply a normal score transformation on CoHIEnKFS to meet this assumption The new method normal score combined half iterative EnKF and ES produces a good result in the petroleum history matching field **Practical Reservoir Engineering and Characterization** Richard O. Baker,Harvey W. Yarranton,Jerry Jensen,2015-04-30 Practical Reservoir Characterization expertly explains key technologies concepts methods and terminology in a way that allows readers in varying roles to appreciate the resulting interpretations and contribute to building reservoir characterization models that improve resource definition and recovery even in the most complex depositional environments It is the perfect reference for senior reservoir engineers who want to increase their awareness of the latest in best practices but is also ideal for team members who need to better understand their role in the characterization process The text focuses on only the most critical areas including modeling the reservoir unit predicting well behavior understanding past reservoir performance and forecasting future reservoir performance The text begins with an overview of the methods required for analyzing

characterizing and developing real reservoirs then explains the different methodologies and the types and sources of data required to characterize forecast and simulate a reservoir Thoroughly explains the data gathering methods required to characterize forecast and simulate a reservoir Provides the fundamental background required to analyze characterize and develop real reservoirs in the most complex depositional environments Presents a step by step approach for building a one two or three dimensional representation of all reservoir types *Statistical Reservoir Characterization, Simulation, and Optimization of Field Scale-gas Assisted Gravity Drainage (GAGD) Process with Uncertainty Assessments* Watheq Jasim Mohammed Al-Mudhafar,2016 **Applications of Level Set and Fast Marching Methods in Reservoir**

Characterization Jiang Xie,2012 Reservoir characterization is one of the most important problems in petroleum engineering It involves forward reservoir modeling that predicts the fluid behavior in the reservoir and inverse problem that calibrates created reservoir models with given data In this dissertation we focus on two problems in the field of reservoir characterization depth of investigation in heterogeneous reservoirs and history matching and uncertainty quantification of channelized reservoirs The concept of depth of investigation is fundamental to well test analysis Much of the current well test analysis relies on analytical solutions based on homogeneous or layered reservoirs However such analytic solutions are severely limited for heterogeneous and fractured reservoirs particularly for unconventional reservoirs with multistage hydraulic fractures We first generalize the concept to heterogeneous reservoirs and provide an efficient tool to calculate drainage volume using fast marching methods and estimate pressure depletion based on geometric pressure approximation The applicability of proposed method is illustrated using two applications in unconventional reservoirs including flow regime visualization and stimulated reservoir volume estimation Due to high permeability contrast and non Gaussianity of channelized permeability field it is difficult to history match and quantify uncertainty of channelized reservoirs using traditional approaches We treat facies boundaries as level set functions and solve the moving boundary problem history matching with the level set equation In addition to level set methods we also exploit the problem using pixel based approach The reversible jump Markov Chain Monte Carlo approach is utilized to search the parameter space with flexible dimensions Both proposed approaches are demonstrated with two and three dimensional examples **Reservoir Characterization II** Lake,2012-12-02 Reservoir Characterization II contains the proceedings of the Second International Reservoir Characterization Conference held in Dallas Texas in June 1989 Contributors focus on the characterization of reservoir processes and cover topics ranging from surface roughness in porous media and reservoir characterization at the mesoscopic scale to shale clast heterogeneities and their effect on fluid flow permeability patterns in fluvial sandstones and reservoir management using 3 D seismic data This book is organized into six sections encompassing 43 chapters The first 20 chapters deal with reservoir characterization at the microscopic mesoscopic and macroscopic scales Topics include low contrast resistivity sandstone formations the use of centrifuge and computer tomography to quantify saturation distribution and

capillary pressures and cross well seismology as a tool for reservoir geophysics The chapters that follow deal with reservoir characterization at the megascopic scale fractal heterogeneity of clastic reservoirs heterogeneity and effective permeability of porous rocks and drilling fluid design based on reservoir characterization A chapter that outlines a procedure for estimating permeability anisotropy with a minipermeameter concludes the book This book is a valuable resource for students and practitioners of petroleum engineering geology and geological engineering petroleum exploration and geophysics

DEVELOPMENT OF AN ADVANCED APPROACH FOR NEXT-GENERATION INTEGRATED RESERVOIR

CHARACTERIZATION. ,2005 Accurate high resolution three dimensional 3D reservoir characterization can provide substantial benefits for effective oilfield management By doing so the predictive reliability of reservoir flow models which are routinely used as the basis for investment decisions involving hundreds of millions of dollars and designed to recover millions of barrels of oil can be significantly improved Even a small improvement in incremental recovery for high value assets can result in important contributions to bottom line profitability Today s standard practice for developing a 3D reservoir description is to use seismic inversion techniques These techniques make use of geostatistics and other stochastic methods to solve the inverse problem i e to iteratively construct a likely geologic model and then upscale and compare its acoustic response to that actually observed in the field This method has several inherent flaws such as 1 The resulting models are highly non unique multiple equiprobable realizations are produced meaning 2 The results define a distribution of possible outcomes the best they can do is quantify the uncertainty inherent in the modeling process and 3 Each realization must be run through a flow simulator and history matched to assess it s appropriateness and therefore 4 The method is labor intensive and requires significant time to complete a field study thus it is applied to only a small percentage of oil and gas producing assets A new approach to achieve this objective was first examined in a Department of Energy DOE study performed by Advanced Resources International ARI in 2000 2001 The goal of that study was to evaluate whether robust relationships between data at vastly different scales of measurement could be established using virtual intelligence VI methods The proposed workflow required that three specific relationships be established through use of artificial neural networks ANN s core to log log to crosswell seismic and crosswell to surface seismic One of the key attributes of the approach which should result in the creation of high resolution reservoir characterization with greater accuracy and with less uncertainty than today s methods is the inclusion of borehole seismic such as crosswell and or vertical seismic profiling VSP in the data collection scheme Borehole seismic fills a critical gap in the resolution spectrum of reservoir measurements between the well log and surface seismic scales thus establishing important constraints on characterization outcomes The results of that initial study showed that it is in fact feasible to establish the three critical relationships required and that use of data at different scales of measurement to create high resolution reservoir characterization is possible Based on the results of this feasibility study in September 2001 the DOE again through ARI launched a subsequent two year government

industry R D project to further develop and demonstrate the technology The goals of this project were to 1 Make improvements to the initial methodology by incorporating additional VI technologies such as clustering using core measurements in place of magnetic resonance image MRI logs and streamlining the workflow among others 2 Demonstrate the approach in an integrated manner at a single field site and validate it via reservoir modeling or other statistical methods

Rocks to Models : an Introduction to 3-D Reservoir Characterization and Modeling Matthew J. Pranter,2005 **Fourth International Reservoir Characterization Technical Conference** ,1997 This volume contains the Proceedings of the Fourth International Reservoir Characterization Technical Conference held March 2 4 1997 in Houston Texas The theme for the conference was Advances in Reservoir Characterization for Effective Reservoir Management On March 2 1997 the DOE Class Workshop kicked off with tutorials by Dr Steve Begg BP Exploration and Dr Ganesh Thakur Chevron Tutorial presentations are not included in these Proceedings but may be available from the authors The conference consisted of the following topics data acquisition reservoir modeling scaling reservoir properties and managing uncertainty Selected papers have been processed separately for inclusion in the Energy Science and Technology database from publisher

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