



Petrel Structural Modeling

Shasha Hu



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Petrel 2011 Schlumberger Well Services,2011 **Modeling Uncertainty in Metric Space** Kwangwon Park,2011

Modeling uncertainty for future prediction requires drawing multiple posterior models Such drawing within a Bayesian framework is dependent on the likelihood data model relationship as well as prior distribution of the model variables For the uncertainty assessment in the Earth models we propose the framework of Modeling Uncertainty in Metric Space MUMS to achieve this in a general way MUMS constructs a metric space where the models are represented exclusively by a distance correlated with or equal to the difference in their responses application tailored distance In the framework of MUMS various operations are available projection of metric space by multi dimensional scaling model expansion by kernel Karhunen Loeve expansion generation of additional prior model by solving the pre image problem and generation of multiple posterior models by solving the post image problem We propose a robust solution for the pre image problem geologically constrained optimization which utilizes the probability perturbation method from the solution of the fixed point iteration algorithm Additionally we introduce a so called post image problem for obtaining the feature expansion of the true Earth by defining a distance as the difference in their responses The combination of geologically constrained optimization and the post image problem efficiently generates multiple posterior Earth models constrained to prior geologic information hard data and nonlinear time dependent data The proposed method provides a realistic uncertainty model for future prediction compared with the result of the rejection sampler We also propose a metric ensemble Kalman filter Metric EnKF which applies the ensemble Kalman filter EnKF to the parameterizations by the kernel KL expansion in metric space Metric EnKF overcomes some critical limitations of EnKF it preserves prior geologic information it creates a stable and consistent filtering However the results of Metric EnKF applied to various cases including the Brugge field scale synthetic reservoir show the same problem as with the EnKF in general that is it does not provide a realistic uncertainty model *Petrel 2010* Schlumberger Limited,2010 *Sedimentary System Responses to External Forcings: a Process-Based Perspective* Brian W. Romans,Julie Fosdick,William Helland-Hansen,Miquel Poyatos Moré,2020-12-01 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact [Proceedings of the International Field Exploration and Development Conference 2019](#) Jia'en Lin,2020-07-11 This book gathers selected papers from the 8th International Field Exploration and Development Conference IFEDC 2019 and addresses a broad range of topics including Low Permeability Reservoir Unconventional Tight Shale Oil Reservoir Unconventional Heavy Oil and Coal Bed Gas

Digital and Intelligent Oilfield Reservoir Dynamic Analysis Oil and Gas Reservoir Surveillance and Management Oil and Gas Reservoir Evaluation and Modeling Drilling and Production Operation Enhancement of Recovery Oil and Gas Reservoir Exploration The conference not only provided a platform to exchange experiences but also promoted the advancement of scientific research in oil gas exploration and production The book is chiefly intended for industry experts professors researchers senior engineers and enterprise managers

Geological Storage of CO₂ - Long Term Security Aspects Axel Liebscher,Ute Münch,2015-02-21 This book explores the industrial use of secure permanent storage technologies for carbon dioxide CO₂ especially geological CO₂ storage Readers are invited to discover how this greenhouse gas could be spared from permanent release into the atmosphere through storage in deep rock formations Themes explored here include CO₂ reservoir management caprock formation bio chemical processes and fluid migration Particular attention is given to groundwater protection the improvement of sensor technology borehole seals and cement quality A collaborative work by scientists and industrial partners this volume presents original research it investigates several aspects of innovative technologies for medium term use and it includes a detailed risk analysis Coal based power generation energy consuming industrial processes such as steel and cement and the burning of biomass all result in carbon dioxide Those involved in such industries who are considering geological storage of CO₂ as well as earth scientists and engineers will value this book and the innovative monitoring methods described Researchers in the field of computer imaging and pattern recognition will also find something of interest in these chapters

Oilfield Review ,2009 *Hydrocarbon Exploration to Exploitation West of Shetlands* S.J.C. Cannon ,D. Ellis ,2014-06-09 This volume addresses the challenges facing explorers and developers alike in a region that is becoming a major focus of the petroleum industry in the United Kingdom Faroes and North Norway Several West of Shetland fields are still in the appraisal phase almost a decade after discovery Sub volcanic exploration risks remain high sub volcanic structural traps are imaged poorly and so the geophysical community is responding with the application of latest technology The more simple reservoirs might not be large enough to prompt informed and speedy development decisions larger fields might have a combination of complexities requiring a phased approach to the development Infrastructure has been slow to arrive and planned developments have been subject to dramatic swings in fiscal regime ranging from special allowances to unexpected tax increases Environmental challenges are significant when moving into more remote deeper water The perception of these challenges by the third parties has become much more acute To sustain its right to operate the industry has to demonstrate safe drilling operations and appropriate response capability with government agencies

Dipmeter and Borehole Image Log Technology Michael Poppelreiter,Carmen Garcia-Carballido,Martin Kraaijveld,2010-08-25 Borehole imaging is among the fastest and most accurate methods for collecting high resolution subsurface data Recent breakthroughs in acquisition tool design and modeling software provide real time subsurface images of incredible detail from the drill bit straight to a workstation This text portrays key applications

of dipmeter and image log data across the exploration and production life cycle Proceedings of The 17th International Conference of the International Association for Computer Methods and Advances in Geomechanics Zhen-Yu Yin, Jidong Zhao, Wan-Huan Zhou, 2026-02-04 This book covers the proceedings of the 17th International Conference of the International Association for Computer Methods and Advances in Geomechanics IACMAG 2025 which offers a comprehensive collection of peer reviewed conference papers that showcase the latest advancements in computational geomechanics Readers will benefit from insights into cutting edge research and innovative applications including intelligent computational methods digital twin technology multiphysics coupling etc The work features detailed illustrations and tables that enhance understanding and provide a clear presentation of complex concepts This collection serves as an invaluable resource for researchers engineers and professionals in geomechanics environmental geotechnology and related fields offering practical solutions and fostering interdisciplinary collaboration The primary audience includes academics industry practitioners and students seeking to deepen their knowledge and apply advanced computational techniques in geotechnical engineering *Aviation Week & Space Technology* ,1924 Includes a mid December issue called Buyer guide edition *Aviation* ,1924 Advances in Mineral Resources, Geotechnology and Geological Exploration Ahmad Safuan Bin A Rashid, Junwen Zhang, 2022-10-12 Advances in Mineral Resources Geotechnology and Geological Exploration focuses on the research of mineral resources geotechnology and geological exploration The proceedings features the most cutting edge research directions and achievements related to geology Subjects in this proceedings include Materials of geography Resource exploration Geotechnical engineering Rock mechanics and rock engineering The works of this proceedings can promote development of geology resource sharing flexibility and high efficiency Thereby promote scientific information interchange between scholars from top universities research centers and high tech enterprises working all around the world **Journal of Petroleum Technology** ,2008-07 Preview ,2003 Beginning with 1999 first issue of the year devoted to coverage of the International ASEG Conference and Exhibition **Petrel 20 Years** Schlumberger, 2018-11-13 The Petrel E P software platform started 20 years ago when Technoguide a Norwegian startup based in Oslo released the first version of Petrel 1.0 in December 1998 The Petrel platform has become an industry standard and has revolutionized the way we work in all domains Today the active global community of users continue to push the boundaries of subsurface understanding using the Petrel platform In creating this special anniversary book we want to take a moment to reflect on that history and to celebrate the many achievements we have made together with you our customers and partners **Petrominer** ,2007 **Hart's E&P.** ,2007 *Exploration Geophysics* ,2001 **The Journal of Canadian Petroleum Technology** ,2003

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