



Petrel
Schlumberger

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Kwangwon Park



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This Is Schlumberger Schlumberger,2017-09-01 This book assembles the historical facts people and culture of Schlumberger as it recognizes the 90th anniversary of the first well log conducted in Pechelbronn France in 1927 It is a story that began with Conrad and Marcel Schlumberger the sons of a successful French businessman in the textile industry Originally their father Paul was drawn more to the study of science and did not think the world of business would suit him When Paul took over the family firm with great success he did not abandon his interest in the sciences Instead he imparted his thirst for knowledge to his sons and provided the financial support they needed to pioneer a new field subsurface metrology the science of measurement Armed with their father s support Conrad and Marcel set out on a journey that would have a lasting effect on the oil and gas industry Today Schlumberger is the world s leading provider of technology for reservoir characterization drilling production and processing to the oil and gas industry Working in more than 85 countries and employing approximately 100 000 people who represent over 140 nationalities Schlumberger supplies the industry s most comprehensive range of products and services from exploration through production and integrated pore to pipeline solutions that optimize hydrocarbon recovery to deliver reservoir performance Schlumberger seeks to become the best run company in the world by leveraging its established strengths in technology people and size and focusing its actions in four areas growth returns integrity and engagement Schlumberger has weathered the vagaries of the oil and gas industry by maintaining a clearly defined identity investing the time to understand its customers and investors and possessing a willingness to change The qualities that have defined the company for the last 90 years will serve it well as we look to the future in an industry that at the time this book was published was navigating the longest industry downturn in the past 30 years Though the industry s cyclic nature is a familiar one the current situation is not the result of lower demand or other external factors that characterized previous downturns This unique downturn has caused many consequences for the oil and gas industry and Schlumberger hopes to lead the way to the future *Shared Earth Modeling* Michel Perrin,Jean-François Rainaud,2013 Over the last two decades earth modeling has become a major investigative tool for evaluating the potential of hydrocarbon reservoirs Earth modelling must now face new challenges since petroleum exploration no longer consists in only investigating newly identified resources but also in re evaluating the potential of previously investigated reservoirs in the light of new prospecting data and of revised interpretations Earth models incorporate a variety of different interpretations made on various types of data at successive steps of the modeling process However current modeling procedures provide no way to link a range of data and interpretations with a final earth model For this reason sharing and exchanging information about the model building process is at present a major difficulty Recently the term Shared Earth Modeling has been used for expressing the idea that earth models should be built in such a way that experts and end users can have access at any time to all the information incorporated into the model This information does not only concern the data but also the knowledge that

geoscientists produce by interpreting these data Accordingly practical solutions must be studied for operating a knowledge driven approach of Shared Earth Modeling This is the goal of this book This study of earth subsurface modeling is intended for several categories of readers It concerns in the first place geologists engineers and managers involved in the study and evaluation of subsurface reservoirs and hydrocarbon exploration Relying on recent progress in various fields of computer sciences the authors present innovative solutions for solving the critical issue of knowledge exchange at key steps of the modeling process This book will also be of interest to researchers in computer science and more generally to engineers researchers and students who wish to apply advanced knowledge based techniques to complex engineering problems

Contents Part I Earth Models 1 Earth models as subsurface representations 2 Earth models for underground resource exploration and estimation 3 Earth models used in petroleum industry current practice and future challenges Part II Knowledge oriented solutions 4 Knowledge based approach of a data intensive problem seismic interpretation 5 Individual surface representations and optimization 6 Geological surface assemblage 7 3D Meshes for structural stratigraphy and reservoir frameworks 8 The data extension issue geological constraints applied in geostatistical processes Part III Knowledge formalization 9 Ontologies and their use for geological knowledge formalization 10 Ontologies for Interpreting geochronological relationships 11 Building ontologies for analyzing data expressed in natural language 12 Ontology based rock description and interpretation Part IV Knowledge management applications 13 Ontology integration and management within data intensive engineering systems 14 Earth modeling using web services 15 Full scale example of a knowledge based method for building and managing an earth model Part V Conclusion Appendix Glossary

The Nature of the Firm in the Oil Industry Basak Beyazay, 2015-10-16 Firm to firm relationships along with the overall structure of industry have changed markedly over the past decades Replacing the model of vertical integration with one of global business firms have started to outsource more by using a wider global network At the same time they have begun to increase their control and coordination along the value chain to remain competitive blurring the boundaries between companies Understanding the nature of the firm and its role in coordinating the supply chain will help firms to better define global competitive strategies The challenges that lie ahead for global business render obsolete the traditional model of procuring each service without long term supply chain management Current trends suggest that in the future there will be even deeper supply chain integration in most industries The Nature of the Firm in the Oil Industry aims to facilitate the understanding of the firm via the analysis of the specific relationship between international oil companies which are among the world's biggest firms and which act as core system integrators and the oil services companies which help to find extract produce and distribute oil along the petroleum industry supply chain This relationship serves as an example of deep integration by core system integrators and provides insights into the change in the nature of the firm in the era of modern globalization Aimed at researchers and academics The Nature of the Firm in the Oil Industry offers a thorough examination of this relationship in an effort to shed light on the

nature of the firm both in the oil industry and in global business today It is a humble attempt to better understand the firm in a crucial industry

Solid Fuels Technology and Applications. Nikolaos Koukoulas,Pavlos Tyrologou,Petros Koutsovitis,2021-04-14 This Special Issue presents the latest state of the art research on solid fuels technology with dedicated focused research papers There are a variety of topics to choose from among the seven published research works to bring you up to date with the current trends in academia and industry

Mesozoic Resource Potential in the Southern Permian Basin B. Kilhams,P.A. Kukla,S. Mazur,T. McKie,H.F. Mijndieff,K. van Ojik,2018-08-31 The Southern Permian Basin as its name suggests is a historical heartland for hydrocarbon production from the Palaeozoic Rotliegend interval However in this mature basin the Mesozoic presents further possibilities to offer resource security to NW Europe Such opportunities include increasing efficiency in the production of discovered hydrocarbons exploration for further hydrocarbons both conventional and unconventional and efficient exploration for and production of geothermal energy All these potential resources require a grounding in technically sound geoscience via traditional scientific observation and the application of new technologies to unlock their value The main aim of this volume is to bring together the work of academics and industry workers to consider cross border geoscience including contributions on Poland Germany The Netherlands the United Kingdom and adjacent areas The work presented intends to contribute to the development and discovery of further Mesozoic energy resources across the basin

Natural Methane Emissions in a Changing Arctic - Implications for Climate and Environment Karin Andreassen,Jochen Knies,Susanne Liebner,Andrew Jonathan Hodson ,Carolyn Ruppel,2024-11-06 Natural emissions of methane have received much attention over the last decade due to the documented increase of methane in the atmosphere and high global warming potential relative to CO₂ Over the past few decades the Arctic has been warming approximately four times faster than the rest of the planet driving a pressing need to assess the current and future vulnerability of various natural methane sources In the Arctic vast amounts of methane is stored in soils and permafrost or is being generated as permafrost thaw continues Additionally there are large stores of methane in Arctic gas hydrates a solid form of concentrated methane and water and in numerous settings including deep water marine areas on continental shelves hosting relict subsea permafrost and gas hydrate in and beneath onshore permafrost and likely beneath the Greenland Ice Sheet Continued climate warming is making methane leakage more likely Even deeper conventional gas reservoirs could leak methane as the overlying permafrost degrades

The Basins, Orogens and Evolution of the Southern Gulf of Mexico and Northern Caribbean I. Davison,J. Hull,J. Pindell,2021-03-25 This volume brings together 17 comprehensive data rich analyses to provide an updated perspective on the Mexican Gulf of Mexico Florida and northern Caribbean The papers span a broad range of scales and disciplines from plate tectonic evolution to sub basin scale analysis Papers are broadly categorised into three themes 1 geological evolution of the basins of the southern Gulf of Mexico in Mexico Bahamas and Florida and their hydrocarbon potential 2 evolution of the region s Late Cretaceous to Neogene orogens and subsequent denudation history

and 3 geological evolution of the basins and crustal elements of the northern Caribbean This book and its extensive data sets are essential for all academic and exploration geoscientists working in this area Two large wall maps are included as fold outs

Advances in ocean bottom seismology Francisco Javier Nuñez-Cornu, Susan Bilek, Nathaniel Lindsey, Diana Núñez, Charlotte A. Rowe, 2023-03-27

Geometric Modelling, Numerical Simulation, and Optimization: Geir Hasle, Knut-Andreas Lie, Ewald Quak, 2007-06-10 This edited volume addresses the importance of mathematics for industry and society by presenting highlights from contract research at the Department of Applied Mathematics at SINTEF the largest independent research organization in Scandinavia Examples range from computer aided geometric design via general purpose computing on graphics cards to reservoir simulation for enhanced oil recovery Contributions are written in a tutorial style

Digital Oil Eric Monteiro, 2022-11-08 How is digitalization of the offshore oil industry fundamentally changing how we understand work and ways of knowing Digitalization sits at the forefront of public and academic conversation today calling into question how we work and how we know In Digital Oil Eric Monteiro uses the Norwegian offshore oil and gas industry as a lens to investigate the effects of digitalization on embodied labor and in doing so shows how our use of new digital technology transforms work and knowing For years roughnecks have performed the dangerous and unwieldy work of extracting the oil that lies three miles below the seabed along the Norwegian Continental Shelf Today the Norwegian oil industry is largely digital operated by sensors and driven by data Digital representations of physical processes inform work practices and decision making with remotely operated unmanned deep sea facilities Drawing on two decades of in depth interviews observations news clips and studies of this industry Eric Monteiro dismantles the divide between the virtual and the physical in Digital Oil What is gained or lost when objects and processes become algorithmic phenomena with the digital inferred from the physical How can data driven work practices and operational decision making approximate qualitative interpretation professional judgement and evaluation How are emergent digital platforms and infrastructures as machineries of knowing enabling digitalization In answering these questions Monteiro offers a novel analysis of digitalization as an effort to press the limits of quantification of the qualitative

Quantifying Uncertainty in Subsurface Systems Céline Scheidt, Lewis Li, Jef Caers, 2018-05-08 Under the Earth's surface is a rich array of geological resources many with potential use to humankind However extracting and harnessing them comes with enormous uncertainties high costs and considerable risks The valuation of subsurface resources involves assessing discordant factors to produce a decision model that is functional and sustainable This volume provides real world examples relating to oilfields geothermal systems contaminated sites and aquifer recharge Volume highlights include A multi disciplinary treatment of uncertainty quantification Case studies with actual data that will appeal to methodology developers A Bayesian evidential learning framework that reduces computation and modeling time Quantifying Uncertainty in Subsurface Systems is a multidisciplinary volume that brings together five major fields information science decision science geosciences data science and computer science It will appeal

to both students and practitioners and be a valuable resource for geoscientists engineers and applied mathematicians Read the Editors Vox eos org editors vox quantifying uncertainty about earths resources

3D Digital Geological Models

Andrea Bistacchi,Matteo Massironi,Sophie Viseur,2022-04-05 3D DIGITAL GEOLOGICAL MODELS Discover the practical aspects of modeling techniques and their applicability on both terrestrial and extraterrestrial structures A wide overlap exists in the methodologies used by geoscientists working on the Earth and those focused on other planetary bodies in the Solar System Over the course of a series of sessions at the General Assemblies of the European Geosciences Union in Vienna the intersection found in 3D characterization and modeling of geological and geomorphological structures for all terrestrial bodies in our solar system revealed that there are similar datasets and common techniques for the study of all planets Earth and beyond from a geological point of view By looking at Digital Outcrop Models DOMs Digital Elevation Models DEMs or Shape Models SM researchers may achieve digital representations of outcrops topographic surfaces or entire small bodies of the Solar System like asteroids or comet nuclei 3D Digital Geological Models From Terrestrial Outcrops to Planetary Surfaces has two central objectives to highlight the similarities that geological disciplines have in common when applied to entities in the Solar System and to encourage interdisciplinary communication and collaboration between different scientific communities The book particularly focuses on analytical techniques on DOMs DEMs and SMs that allow for quantitative characterization of outcrops and geomorphological features It also highlights innovative 3D interpretation and modeling strategies that allow scientists to gain new and more advanced quantitative results on terrestrial and extraterrestrial structures 3D Digital Geological Models From Terrestrial Outcrops to Planetary Surfaces readers will also find The first volume dedicated to this subject matter that successfully integrates methodology and applications A series of methodological chapters that provide instruction on best practices involving DOMs DEMs and SMs A wide range of case studies including small to large scale projects on Earth Mars the 67P Churyumov Gerasimenko comet and the Moon Examples of how data collected at surface can help reconstruct 3D subsurface models 3D Digital Geological Models From Terrestrial Outcrops to Planetary Surfaces is a useful reference for academic researchers in earth science structural geology geophysics petroleum geology remote sensing geostatistics and planetary scientists and graduate students studying in these fields It will also be of interest for professionals from industry particularly those in the mining and hydrocarbon fields

Progress in

Exploration, Development and Utilization of Geothermal Energy Yinhui Zuo,Shu Jiang,Yanlong Kong,Haibing

Shao,Haiyan Zhu,2022-09-21 *Multiscale Modeling of Deep-water Channel Deposits* Lisa Elizabeth Stright,2011

Sedimentological models capture the processes and subsequent deposits that explain the distribution of facies within a depositional system The first sedimentological models for deep water depositional systems were portrayed as idealized shelf break to slope submarine basin sediment dispersal systems These models were developed from ancient outcrop exposures Mutti and Lucchi 1972 and from the modern day seafloor Normark 1970 1978 More recent model development has been

based largely on observations from modern slope channels including the Amazon Channel Pirmez and Imran 2003 offshore West African Abreu et al 2003 Deptuck et al 2003 and attempts at generalization from multiple studies Mayall et al 2006 as well as ancient outcrop studies e g Brushy Canyon Gardner et al 2003 Concepts from these sedimentological models have been the principle foundation for development of quantitative geostatistical models A geostatistical model adapts the conceptualization of facies distribution from the sedimentological model This information is then coded into a three dimensional gridded computer model directly constrained to available data i e wireline logs core data and seismic attributes Geostatistical models developed for deep water depositional systems have primarily focused on either sinuous channels confined by levees or erosional surfaces e g Larue and Hovadik 2006 Labourdette et al 2007 Pyrcz et al 2008 McHargue et al 2010 Sylvester et al 2010 or basin floor or overbank lobes associated with loss of confinement from sinuous channels Pyrcz et al 2005 Wellner et al 2006 Zhang et al 2009 Although widely used such geostatistical models have limited applicability in fitting all deep water depositional systems and cases exists that require modification of such models or creation of entirely new models In this dissertation I show the importance of synthesizing sedimentological and geostatistical models based on observations from the data The primary objectives of this dissertation are 1 to present methodologies to enable the creation of better sedimentological models from remote sensing data and 2 to present a means to model depositional architectures for a system that cannot currently be captured with standard geostatistical modeling approaches The main contributions are threefold The first contribution presented in Chapter 1 is a methodology designed to extract subseismic lithologic information from inverted pre stack seismic reflectivities Also in Chapter 1 the predictive power of this methodology is demonstrated on a dataset from the subsurface of the Molasse Basin in Upper Austria Beyond this dissertation Bernhardt et al in review adopted the methodology to support the development of a more predictive sedimentological model for the same dataset The second contribution presented in Chapter 2 is a new approach for building predictive quantitative spatial models for a deep water channel belt in which sand deposition is controlled by mass transport deposit topography This methodology leverages sedimentological interpretations derived from subseismic lithologic information as presented in Chapter 1 and the sedimentological work of Bernhardt et al in review The final contribution of this dissertation is presented in two outcrop studies Chapters 3 and 4 utilize extensive data collected from deep water channel outcrops to build digital outcrop models The model from Chapter 3 is used to demonstrate the predictive power of pre stack seismic reflectivity data in interpreting the large scale architecture of a heterolithic deep water channel system exposed in the sea cliffs along Blacks Beach near La Jolla California Finally the outcrop modeling study presented in Chapter 4 presents a methodology to capture structural and stratigraphic uncertainty in outcrop observations in order to analyze the three dimensional channel morphology of the Cerro Toro deep water channel belt exposed in Sierra del Toro outcrops in the Magallanes Basin of Chile These four chapters are described in more detail below

Petrel Workflow Tools: Petrel reservoir engineering Schlumberger,2005 *Oilfield*

Review ,2009 *Tertiary Deep-Marine Reservoirs of the North Sea Region* T. McKie,P.T.S. Rose,A.J. Hartley,D.W. Jones,T.L. Armstrong ,2015-11-02 Discovery of the Arbroath Montrose and Forties fields initiated intensive exploration of the Tertiary deep marine play in the North Sea region Subsequent discoveries demonstrated the success of this play and the geological diversity of the depositional systems The play is now mature and in many areas the remaining exploration potential is likely to be dominated by small subtle traps with a major component of stratigraphic trapping Economically marginal discoveries need an in depth understanding of subsurface uncertainty to mitigate risk with limited appraisal wells Mature fields require detailed geological understanding in the search for the remaining oil This volume focuses on the regional depositional setting of these deep marine systems providing a stratigraphic and palaeogeographical context for exploration and development case histories that outline the challenges of producing from these reservoirs The fields are arranged around the production life cycle describing the changing needs of geological models as the flow of static and dynamic data refines geological understanding and defines the nature of new opportunities as fields mature 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 The Future of Geological Modelling in Hydrocarbon Development Adam Robinson,2008 The 3D geological model is still regarded

as one of the newest and most innovative tools for reservoir management purposes The computer modelling of structures rock properties and fluid flow in hydrocarbon reservoirs has evolved from a specialist activity to part of the standard desktop toolkit The application of these techniques has allowed all disciplines of the subsurface team to collaborate in a common workspace In today's asset teams the role of the geological model in hydrocarbon development planning is key and will be for some time ahead The challenges that face the geologists and engineers will be to provide more seamless interaction between static and dynamic models This interaction requires the development of conventional and unconventional modelling algorithms and methodologies in order to provide more risk assessed scenarios thus enabling geologists and engineers to better understand and capture inherent uncertainties at each aspect of the geological model's life

Data Analytics for Drilling Engineering Qilong Xue, 2019-12-30 This book presents the signal processing and data mining challenges encountered in drilling engineering and describes the methods used to overcome them In drilling engineering many signal processing technologies are required to solve practical problems such as downhole information transmission spatial attitude of drillstring drillstring dynamics seismic activity while drilling among others This title attempts to bridge the gap between the signal processing and data mining and oil and gas drilling engineering communities There is an urgent need to summarize signal processing and data mining issues in drilling engineering so that practitioners in these fields can understand each other in order to enhance oil and gas drilling functions In summary this book shows the importance of signal processing and data mining to researchers and professional drilling engineers and open up a new area of application for signal processing and data mining scientists

Reviewing **Schlumberger Petrel** : Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Schlumberger Petrel** ," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Schlumberger Petrel Introduction

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