

Schlumberger Petrel Manual

Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers
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Computational Models for CO₂ Geo-sequestration & Compressed Air Energy Storage
3D Digital Geological Models
Resources and Sustainable Development III
Mesozoic Resource Potential in the Southern Permian Basin
The Leading Edge
The Journal of Canadian Petroleum Technology
Oilfield Review
Memoir
Core-log Integration
Petrel Fundamentals
AAPG Explorer
Petrel 20 Years
Petrel Workflow Tools Introduction Course
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in this chapter the principles of reservoir modeling workflows and their applications have been summarized reservoir modeling is a multi disciplinary process that requires cooperation from geologists geophysicists reservoir engineers petrophysics and financial individuals working in a team setting the best model is one that provides quantitative properties of the reservoir though this is often difficult to achieve there are three broad steps in the modeling process the team needs to first evaluate the data quality plan the proper modeling workflow and understand the range of uncertainties of the reservoir the second step is data preparation and interpretation which can be a long tedious but essential process which may include multiple iterations of quality control interpretation calibration and tests the third step is determining whether to build a deterministic single data based model or stochastic multiple geostatistical iterations model the modeling approach may be decided by the quality and quantity of the data there is no single rule of thumb because no two reservoirs are identical object based stochastic modeling is the most widely used modeling method today the modeling results need to be constrained and refined by both geologic and mathematical validation variogram analysis is very important in quality control of object based

stochastic modeling outcrops are excellent sources of continuous data which can be incorporated into subsurface reservoir modeling either by 1 building an outcrop reservoir model or 2 identifying and developing outcrop analogs of subsurface reservoirs significant upscaling of a reservoir model for flow simulation may well result in an erroneous history match because the upscaling process often deletes lateral and vertical heterogeneities which may control or affect reservoir performance particularly in a deterministic model reservoir uncertainties are easier to manipulate by object based stochastic models choosing the best realization approach for the reservoir model is the key to predicting reservoir performance in the management of reservoirs

reservoir characterization as a discipline grew out of the recognition that more oil and gas could be extracted from reservoirs if the geology of the reservoir was understood prior to that awakening reservoir development and production were the realm of the petroleum engineer in fact geologists of that time would have felt slighted if asked by corporate management to move from an exciting exploration assignment to a more mundane assignment working with an engineer to improve a reservoir's performance slowly reservoir characterization came into its own as a quantitative multidisciplinary endeavor requiring a vast array of skills and knowledge sets perhaps the biggest attractor to becoming a reservoir geologist was the advent of fast computing followed by visualization programs and theaters all of which allow young geoscientists to practice their computing skills in a highly technical work environment also the discipline grew in parallel with the evolution of data integration and the advent of asset teams in the petroleum industry finally reservoir characterization flourished with the quantum improvements that have occurred in geophysical acquisition and processing techniques and that allow geophysicists to image internal reservoir complexities practical resource describing different types of sandstone and shale reservoirs case histories of reservoir studies for easy comparison applications of standard new and emerging technologies

a comprehensive mathematical and computational modeling of CO₂ geosequestration and compressed air energy storage energy and environment are two interrelated issues of great concern to modern civilization as the world population will soon reach eight billion the demand for energy will dramatically increase intensifying the use of fossil fuels

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 domes 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 domes 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

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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

this volume addresses some of the problems of core log integration encountered by scientists and engineers from both industry and academia core and log measurements provide crucial information about subsurface formations their usage either for integration or calibration is complicated by the different measurement methods employed different volumes of formation analysed and in turn the heterogeneity of the formations while the problems of comparing core and log data are only too well known the way in which these data can be most efficiently combined is not at all clear in most cases in recent years there has been increased interest in this problem both in industry and academia due to developments in technology which offer access to new types of information and in the case of industry pressure for improved reservoir models and hydrocarbon recovery the application of new numerical methods for analysing and modelling core and log data the availability of core scanning facilities and novel core measurements in both two and three dimensions currently provide a framework for the development of new and exciting approaches to

core log integration the contributions within core log integration geologically range from hydrocarbon bearing sediments in the north sea to the volcanic rocks that form the upper part of the oceanic crust

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

petrel seismic to simulation software helps increase reservoir performance by improving asset team productivity geophysicists geologists and reservoir engineers can develop collaborative workflows and integrate operations to streamline processes page 2

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