

# Schlumberger Petrel Manual

Stratigraphic Reservoir Characterization for Petroleum Geologists, Geophysicists, and Engineers  
Computational Models for CO2 Geo-sequestration & Compressed Air Energy Storage  
3D Digital Geological Models  
Structure and Diagenesis in Upper Carboniferous Tight Gas Reservoirs in NW Germany  
Resources and Sustainable Development III  
Mesozoic Resource Potential in the Southern Permian Basin  
Oilfield Review  
The Leading Edge  
The Journal of Canadian Petroleum Technology  
Petrel Fundamentals  
Memoir  
Petrel 20 Years  
Petrel Workflow Tools Introduction Course  
Introduction Course  
Petrel Geology  
Petrel 2010  
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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

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 ut

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

upper carboniferous sandstones are important tight gas reservoirs in central europe this field based study conducted in a km scale reservoir outcrop analog piesberg quarry lower saxony basin nw germany focused on the diagenetic control on spatial reservoir quality distribution geothermometers were used to characterize a fault related thermal anomaly a prototype workflow based on terrestrial laser scanning is presented which allowed for the automated detection and analysis of fractures

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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

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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