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Beginning Kinect Programming with the Microsoft Kinect SDK CRC Press

This book explains in detail how to use oil and gas show information to find hydrocarbons. It covers the basics of exploration methodologies, drilling and mud systems, cuttings and mud gas show evaluation, fundamental log analysis, the pitfalls of log-calculated water saturations, and a complete overview of the use of pressures to understand traps and migration, hydrodynamics, and seal and reservoir quantification using capillary pressure. Also included are techniques for quickly generating pseudo-capillary pressure curves from simple porosity/permeability data, with examples of how to build spreadsheets in Excel, and a complete treatment of fluid inclusion analysis and fluid inclusion stratigraphy to map migration pathways. In addition, petroleum systems modeling and fundamental source rock geochemistry are discussed in depth, particularly in the context of unconventional source rock evaluation and screening tools for entering new plays. The book is heavily illustrated with numerous examples and case histories from the author's 37 years of exploration experience. The topics covered in this book will give any young geoscientist a quick start on a successful career

and serve as a refresher for the more experienced explorer.

Machine Learning and Artificial Intelligence in Geosciences Geological Society of London

This book presents an overview of techniques that are available to characterize sedimentary aquifers. Groundwater flow and solute transport are strongly affected by aquifer heterogeneity. Improved aquifer characterization can allow for a better conceptual understanding of aquifer systems, which can lead to more accurate groundwater models and successful water management solutions, such as contaminant remediation and managed aquifer recharge systems. This book has an applied perspective in that it considers the practicality of techniques for actual groundwater management and development projects in terms of costs, technical resources and expertise required, and investigation time. A discussion of the geological causes, types, and scales of aquifer heterogeneity is first provided. Aquifer characterization methods are then discussed, followed by chapters on data upscaling, groundwater modelling, and geostatistics. This book is a must for every practitioner, graduate student, or researcher dealing with aquifer characterization .

Official Monthly Publication of the Petroleum Branch, American Institute of Mining and Metallurgical Engineers Springer

"My purpose in writing the present book is to give the 'human side' of the story of the men whose achievements spread the Schlumberger method to the four corners of the globe." — from the Preface by Anne Gruner Schlumberger The author, whose father Conrad Schlumberger and uncle Marcel Schlumberger invented "electrical prospecting" and founded what became Schlumberger Ltd., now a worldwide leader in oilfield services, describes the travails of the early days of the company. What began in the basement of the Ecole des Mines in Paris with a "black box" (the potentiometer), was further developed at the family home of Val-Richer, and perfected at Pécℓelbronn, France's only oil field where "coring" (logging) was born, eventually became known to the entire world. Anne Gruner Schlumberger tells what that journey was like for her father and uncle and other geological researchers and engineers whose resourcefulness and perseverance were tested in remote areas of the world where they toiled under harsh conditions to convince skeptics of the validity of their new exploration methods. The little enterprise the two brothers started in 1919 has become in 1982 when The Schlumberger Adventure first appeared a multinational corporation employing 85,000 people in some 78 countries and listed on the stock exchanges of New York, Paris, London and Amsterdam.

Petrel 2011 Academic Press

Applied Petroleum Geomechanics provides a bridge between theory and practice as a daily use reference that contains direct industry applications. Going beyond the basic fundamentals of rock properties, this guide covers critical field and lab tests, along with interpretations from actual drilling

operations and worldwide case studies, including abnormal formation pressures from many major petroleum basins. Rounding out with borehole stability solutions and the geomechanics surrounding hydraulic fracturing and unconventional reservoirs, this comprehensive resource gives petroleum engineers a much-needed guide on how to tackle today's advanced oil and gas operations. Presents methods in formation evaluation and the most recent advancements in the area, including tools, techniques and success stories Bridges the gap between theory of rock mechanics and practical oil and gas applications Helps readers understand pore pressure calculations and predictions that are critical to shale and hydraulic activity

Reservoir Model Design Gulf Professional Publishing

This valuable new book, with 2 programs on diskettes, will help practitioners in solving groundwater flow and contamination problems by integrating simulation techniques. The reader is expected to have knowledge of hydrogeology, and have access to books on groundwater hydrogeology. Two microcomputer programs, in compiled FORTRAN 77 with source codes for simulating quasi-three-dimensional groundwater flow and contaminant migration, are presented in this book. The numerical and analytical techniques incorporated in these programs are described in detail. Data entry has been simplified so that the user can run the programs without worrying about FORTRAN input file structures and editors. The basic requirements are a monitor, dot-matrix printer, and an IBM-PC or compatible computer running DOS Version 2.1 or compatible. Programs require a full 640K RAM (minus that used by DOS) for their operation.

ICIEG 2014 Springer

There is something for every subsurface professional in these fifty-two short essays by more than three dozen petroleum geoscientists. The roster includes some of the most prolific geophysicists of our time, as well as some recently qualified scientists. The topics are even more diverse, ranging from anisotropic media to pre-stack interpretation, and from stories of early seismic workstations to career advice for the future.

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90 Years of Technical Innovation Oxford University Press

"Reservoir compartmentalization - the segregation of a petroleum accumulation into a number of individual fluid/pressure compartments - controls the volume of moveable oil or gas that might be connected to any given well drilled in a field, and consequently impacts 'booking' of reserves and operational profitability. This is a general feature of modern exploration and production portfolios, and has driven major developments in geoscience, engineering and related technology. Given that compartmentalization is a consequence of many factors, an integrated subsurface approach is required to better understand and predict compartmentalization behaviour, and to minimize the risk of it occurring unexpectedly. This volume reviews our current understanding and ability to model compartmentalization. It highlights the necessity for effective specialist discipline integration, and the value of learning from operational experience in: detection and monitoring of compartmentalization; stratigraphic and mixed-mode compartmentalization; and fault-dominated compartmentalization"--Page 4 of cover.

Aquifer Characterization Techniques Gulf Professional Publishing

This book presents the proceedings of the 3rd International Conference on Integrated Petroleum Engineering and Geosciences 2014 (ICIEG2014). Topics covered on the petroleum engineering side include reservoir modeling and simulation, enhanced oil recovery, unconventional oil and gas reservoirs, production and operation. Similarly geoscience presentations cover diverse areas in geology, geophysics palaeontology and geochemistry. The selected papers focus on current interests in petroleum engineering and geoscience. This book will be a bridge between engineers, geoscientists, academicians and industry.

Multiscale Modeling of Deep-water Channel Deposits Petrel Fundamentals Training and Exercise Guide Petrel 2011 Petrel Training Courses Petrel 20 Years

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.

Asian Oil & Gas Springer Nature

Published in 2002, the first edition of Geostatistical Reservoir Modeling brought the practice of petroleum geostatistics into a coherent framework, focusing on tools, techniques, examples, and guidance. It emphasized the interaction between geophysicists, geologists, and engineers, and was received well by professionals, academics, and both graduate and undergraduate students. In this revised second edition, Deutsch collaborates with co-author Michael Pyrcz to provide an expanded (in coverage and format), full color illustrated, more comprehensive treatment of the subject with a full update on the latest tools, methods, practice, and research in the field of petroleum Geostatistics. Key geostatistical concepts such as integration of geologic data and concepts, scale considerations, and uncertainty models receive greater attention, and new comprehensive sections are provided on preliminary geological modeling concepts, data inventory, conceptual model, problem formulation, large scale modeling, multiple point-based simulation and event-based modeling. Geostatistical methods are extensively illustrated through enhanced schematics, work flows and examples with discussion on method capabilities and selection. For example, this expanded second edition includes extensive discussion on the process of moving from an inventory of data and concepts through conceptual model to problem formulation to solve practical reservoir problems. A greater number of examples are included, with a set of practical geostatistical studies developed to illustrate the steps from data analysis and cleaning to post-processing, and ranking. New methods, which have developed in the field since the publication of the first edition, are discussed, such as models for integration of diverse data sources, multiple point-based simulation, event-based simulation, spatial bootstrap and methods to summarize geostatistical realizations.

The Journal of Canadian Petroleum Technology John Wiley & Sons

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.

Handbook of Mathematical Geosciences Apress

3-D seismic data have become the key tool used in the petroleum industry to understand the subsurface. In addition to providing excellent structural images, the dense sampling of a 3-D survey makes it possible to map reservoir quality and the distribution of oil and gas. Topics covered in this book include basic structural interpretation and map-making; the use of 3-D visualisation methods; interpretation of seismic amplitudes, including their relation to rock and fluid properties; and the generation and use of AVO and acoustic impedance datasets. This new paperback edition includes an extra appendix presenting new material on novel acquisition design, pore pressure prediction from seismic velocity, elastic impedance inversion, and time lapse seismics. Written by professional geophysicists with many years' experience in the oil industry, the book is indispensable for geoscientists using 3-D seismic data, including graduate students and new entrants into the petroleum industry.

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Petrel Geology Agile Libre

This book provides a comprehensive introduction to multiple-point geostatistics, where spatial continuity is described using training images. Multiple-point geostatistics aims at bridging the gap between physical modelling/realism and spatio-temporal stochastic modelling. The book provides an overview of this new field in three parts. Part I presents a conceptual comparison between traditional random function theory and stochastic modelling based on training images, where random function theory is not always used. Part II covers in detail various algorithms and methodologies starting from basic building blocks in statistical science and computer science. Concepts such as non-stationary and multi-variate modeling, consistency between data and model, the construction of training images and inverse modelling are treated. Part III covers three example application areas, namely, reservoir modelling, mineral resources modelling and climate model downscaling. This book will be an invaluable reference for students, researchers and practitioners of all areas of the Earth Sciences where forecasting based on spatio-temporal data is performed.

Reservoir Engineering of Conventional and Unconventional Petroleum Resources Geological Society of London

Reservoir Engineering of Conventional and Unconventional Petroleum Resources is a practical guide and handbook for engineers and geoscientists. It is also a complete textbook for teaching of reservoir engineering courses with exercises in each chapter. The sources and applications of basic rock properties are presented. Prediction of PVT properties from correlations and equations of state, and laboratory measurements of same properties from fluid samples are discussed. These basic data are applied in material balance analyses, volumetric calculation of hydrocarbons-in-place and reserves, and analyses of reservoir performance using case histories. Production forecasts for conventional and unconventional reservoirs using Arps' decline equations in decline curve analyses (DCA) are presented. The applications of modified Arps' decline equations coupled with transient flow models in rate transient analyses (RTA) are illustrated. Dr. Ezekwe presents fundamental equations and methods for pressure transient analysis (PTA) for fractured and unfractured wells in conventional reservoirs. This is accompanied with well test analyses in unconventional reservoirs using diagnostic fracture injection tests (DFIT). Secondary recovery methods focused on waterflooding, gasflooding, and low salinity waterflooding are demonstrated. Enhanced oil recovery methods are discussed. Dr. Ezekwe recommends experience-based practical procedures for geologic modeling, reservoir characterization, reservoir simulation, and reservoir management. Fundamental economic decision criteria including profitability index, net present value, rate of return are demonstrated with examples. Reservoir Engineering of Conventional and Unconventional Petroleum Resources equips engineers with knowledge and skills on how to: Acquire basic rock and fluid properties Predict PVT properties for oil and gas reservoirs from correlations and equations of state Perform reserves evaluations for conventional & unconventional reservoirs using DCA methods

Perform PTA and DFIT analyses for wells in conventional and unconventional reservoirs Conduct rate transient analyses (RTA) for unconventional reservoirs Implement waterflooding, gasflooding, and low salinity waterflooding projects Screen reservoirs for EOR processes and install field-wide EOR projects Build geologic models, reservoir models, and conduct reservoir simulation Develop and implement reservoir management strategies Perform economic evaluation of petroleum projects and resources. Build economic models of projects, fields, and resources

Flow and Contaminant Migration Springer

Faults commonly trap fluids such as hydrocarbons and water and therefore are of economic significance. During hydrocarbon field development, smaller faults can provide baffles and/or conduits to flow. There are relatively simple, well established workflows to carry out a fault seal analysis for siliciclastic rocks based primarily on clay content. There are, however, outstanding challenges related to other rock types, to calibrating fault seal models (with static and dynamic data) and to handling uncertainty. The variety of studies presented here demonstrate the types of data required and workflows followed in today's environment in order to understand the uncertainties, risks and upsides associated with fault-related fluid flow. These studies span all parts of the hydrocarbon value chain from exploration to production but are also of relevance for other industries such as radioactive waste and CO2 containment.

Reservoir Wiley-Interscience

Beginning Kinect Programming with the Microsoft Kinect SDK gets you up and running developing Kinect applications for your PC using Microsoft tools and the official SDK. You will have a working Kinect program by the end of the first chapter! The following chapters will open up the secrets of three-dimensional vision, skeleton tracking, audio through the Kinect, and more. Examples illustrate the concepts in the form of simple games that react to your body movements. The result is a fun read that helps you learn one of the hottest technologies out there today. Beginning Kinect Programming with the Microsoft Kinect SDK also provides building blocks and ideas for mashing up the Kinect with other technologies to create art, interactive games, 3D models and enhanced office automation. You'll learn the fundamental code basic to almost all Kinect applications. You'll learn to integrate that code with other tools and manipulate data to create amazing Kinect applications. Beginning Kinect Programming with the Microsoft Kinect SDK is your gateway into the exciting world of three-dimensional, real-time computer interaction. Helps you create a proper development environment for Kinect applications. Covers the basics of three-dimensional vision, skeleton tracking, gesture recognition, and audio Provides fun examples that keep you engaged and learning

Lithium Battery Technology Geological Society of London

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 exist 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

Engineering Geology Field Manual, Second Edition, Vol. 2, 2001, * Springer

This book provides an overview of the major changes induced by hydrocarbons (HCs) affecting rocks and surface sediments and their implications for non-seismic exploration methods, particularly for marine territories near Cuba. It examines the use of a digital elevation model (DEM) at 90x90m

resolution for the detection of subtle, positive geomorphic anomalies related to hydrocarbon microseepage (vertical migration) on possible oil and gas targets. The results support the conclusion that the DEM data provides a low cost and fast offshore oil and gas preliminary exploration strategy. This data is useful serving to focus prospective areas with supplementary unconventional methods such as magnetic-induced polarization (MIP), useful to propose more expensive volumes for detailed 2D-3D seismic surveys.

REVIEW OF SCHLUMBERGER PETREL TRAINING

- This is basically a compilation of the wisdom and ideas of many of the great PUA's. A must have for the community.

- I have been interested in the umpire's world since I was a kid. I was never a good athlete but was hyper-fair in decision making on the ballfield and knew the rules, so I enjoyed being the arbiter from time to time. The book is quite interesting because it covers a long range of time, from the 1930's to the 1970's. The umps in the beginning of the book were ones I had heard about for the most part; but the last part of the book dealt with umpires I watched in my youth. There are funny anecdotes and I was surprised at the rigid honesty of some of the complaints about specific men in baseball, whether they be players, managers, owners, and sometimes even other umpires. A fun read. My only small complaint is that although you catch a glimpse of the varying personalities of those sharing their story, the writing style tends to be virtually the same and somewhat dry on occasion. But if you are a baseball fan, this set of a dozen umpires' storylines is enjoyable.