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KEY=MANUAL - HOWARD SCHNEIDER

29th European Symposium on Computer Aided Chemical Engineering

Elsevier The 29th European Symposium on Computer Aided Process Engineering, contains the papers presented at the 29th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Eindhoven, The Netherlands, from June 16-19, 2019. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 29th European Symposium of Computer Aided Process Engineering (ESCAPE) event

An Introduction to Reservoir Simulation Using MATLAB/GNU Octave

User Guide for the MATLAB Reservoir Simulation Toolbox (MRST)

Cambridge University Press Presents numerical methods for reservoir simulation, with efficient implementation and examples using widely-used online open-source code, for researchers, professionals and advanced students. This title is also available as Open Access on Cambridge Core.

Advanced Modeling with the MATLAB Reservoir Simulation Toolbox

Cambridge University Press Many leading experts contribute to this follow-up to An Introduction to Reservoir Simulation using MATLAB/GNU Octave: User Guide for the MATLAB Reservoir Simulation Toolbox (MRST). It introduces more advanced functionality that has been recently added to the open-source MRST software. It is however a self-contained introduction to a variety of modern numerical methods for simulating multiphase flow in porous media, with applications to geothermal energy, chemical enhanced oil recovery (EOR), flow in fractured and unconventional reservoirs, and in the unsaturated zone. The reader will learn how to implement new models and algorithms in a robust, efficient manner. A large number of numerical examples are included, all fully equipped with code and data so that the reader can reproduce the results and use them as a starting point for their own work. Like the original textbook, this book will prove invaluable for researchers, professionals and advanced students using reservoir simulation methods.

Proceedings of the 8th International Conference on Foundations of Computer-Aided

Process Design

Elsevier This volume collects together the presentations at the Eighth International Conference on Foundations of Computer-Aided Process Design, FOCAPD-2014, an event that brings together researchers, educators, and practitioners to identify new challenges and opportunities for process and product design. The chemical industry is currently entering a new phase of rapid evolution. The availability of low-cost feedstocks from natural gas is causing renewed investment in basic chemicals in the OECD, while societal pressures for sustainability and energy security continue to be key drivers in technology development and product selection. This dynamic environment creates opportunities to launch new products and processes and to demonstrate new methodologies for innovation, synthesis and design. FOCAPD-2014 fosters constructive interaction among thought leaders from academia, industry, and government and provides a showcase for the latest research in product and process design. Focuses exclusively on the fundamentals and applications of computer-aided design for the process industries. Provides a fully archival and indexed record of the FOCAPD14 conference Aligns the FOCAPD series with the ESCAPE and PSE series

Computational Models for CO2 Geo-sequestration & Compressed Air Energy Storage

CRC Press 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

Enhanced Oil Recovery Field Case Studies

Gulf Professional Publishing Enhanced Oil Recovery Field Case Studies bridges the gap between theory and practice in a range of real-world EOR settings. Areas covered include steam and polymer flooding, use of foam, in situ combustion, microorganisms, "smart water"-based EOR in carbonates and sandstones, and many more. Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field. This book aids that effort, providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields. The case studies cover practical problems, underlying theoretical and modeling methods, operational parameters, solutions and sensitivity studies, and performance optimization strategies, benefitting academicians and oil company practitioners alike. Strikes an ideal balance between theory and practice Focuses on practical problems, underlying theoretical and modeling methods, and operational parameters Designed for technical professionals, covering the fundamental as well as the advanced aspects of EOR

Innovative Exploration Methods for Minerals, Oil, Gas, and Groundwater for Sustainable Development

Elsevier Innovative Exploration Methods for Mineral, Oil, Gas, and Groundwater for Sustainable Development provides an integrated approach to exploration encompassing geology, geophysics, mining, and mineral processing. In addition, groundwater exploration is included, as it is central to the development of earth resources. As the demand for coal, minerals, oil and gas, and water continues to grow globally, researchers must prioritize sustainable exploration methods. Old technologies are being replaced speedily and exploration work has become fast, focused, meaningful, and readily reproducible keeping in pace with the changing global scenario. The themes of exploration of energy resources, exploration of minerals, groundwater exploration and processing and mineral engineering are separated out into sections and chapters included in these sections include case studies focusing on tools and techniques for exploration. Innovative Exploration Methods for Mineral, Oil, Gas, and Groundwater for Sustainable Development gives insight to modern concepts of exploration for those working in the various fields of energy, mineral, and groundwater exploration. Presents innovative research that will both challenge and complement the traditional concepts of exploration Covers a wide range of instruments and their applications, as well as the tools and processes that need to be followed for modern exploration work Includes research on groundwater exploration with a focus on conservation and sustainable exploration and development

Sediment-Body Geometry and Heterogeneity

Analogue Studies for Modelling the Subsurface

Geological Society of London Over the past 20 years there has been a major growth in efforts to quantify the geometry and dimensions of sediment bodies from analogues to provide quantitative input to geological models. The aim of this volume is to examine the current state of the art, from both an industry and an academic perspective. Contributions discuss the challenges of extracting relevant data from different types of sedimentary analogue (outcrop, process models, seismic) and the application and significance of such information for improving predictions from subsurface static and dynamic models. Special attention is given to modelling reservoir properties and gridding issues for predicting subsurface fluid flow. As such, the volume is expected to be of interest to both the geoscience community concerned with the fundamentals of sedimentary architecture as well as geological modellers and engineers interested in how these characteristics are modelled and influence subsurface predictions.

Geostatistics Banff 2004

Springer Science & Business Media The return of the congress to North America after 20 years of absence could not have been in a more ideal location. The beauty of Banff and the many offerings of the Rocky Mountains was the perfect background for a week of interesting and innovative discussions on the past, present and future of geostatistics. The congress was well attended with approximately 200 delegates from 19 countries across six continents. There was a broad spectrum of students and seasoned geostatisticians who shared their knowledge in many areas of study including mining, petroleum, and environmental applications. You will find 119 papers in this two volume set. All papers were presented at the congress and have been peer-reviewed. They are grouped by the different sessions that were held in Banff and are in the order of presentation. These papers provide a permanent record of different theoretical perspectives from the last four years. Not all of these ideas will stand the test of time and practice; however, their originality will endure. The practical applications in these proceedings provide nuggets of wisdom to those struggling to apply geostatistics in the best possible way. Students and practitioners will be digging through these papers for many years to come. Oy Leuangthong Clayton V. Deutsch **ACKNOWLEDGMENTS** We would like to thank the industry sponsors who contributed generously to the overall success and quality of the congress: De Beers Canada Earth Decision Sciences Maptek Chile Ltda. Mira Geoscience Nexen Inc. Petro-Canada Placer Dome Inc.

Geologic Carbon Sequestration

Understanding Reservoir Behavior

Springer This exclusive compilation written by eminent experts from more than ten countries, outlines the processes and methods for geologic sequestration in different sinks. It discusses and highlights the details of individual storage types, including recent advances in the science and technology of carbon storage. The topic is of immense interest to geoscientists, reservoir engineers, environmentalists and researchers from the scientific and industrial communities working on the methodologies for carbon dioxide storage. Increasing concentrations of anthropogenic carbon dioxide in the atmosphere are often held responsible for the rising temperature of the globe. Geologic sequestration prevents atmospheric release of the waste greenhouse gases by storing them underground for geologically significant periods of time. The book addresses the need for an understanding of carbon reservoir characteristics and behavior. Other book volumes on carbon capture, utilization and storage (CCUS) attempt to cover the entire process of CCUS, but the topic of geologic sequestration is not discussed in detail. This book focuses on the recent trends and up-to-date information on different storage rock types, ranging from deep saline aquifers to coal to basaltic formations.

Thermo-Hydro-Mechanical-Chemical Processes in Fractured Porous Media: Modelling and Benchmarking

Closed-Form Solutions

Springer The present book provides guidance to understanding complicated coupled processes based on the experimental data available and implementation of developed algorithms in numerical codes. Results of selected test cases in the fields of closed-form solutions (e.g., deformation processes), single processes (such as groundwater flow) as well as coupled processes are presented. It is part of the OpenGeoSys initiative - an open source project to share knowledge and experience in environmental analysis and scientific computation with the community.

Geological Storage of Carbon Dioxide (CO₂)

Geoscience, Technologies, Environmental Aspects and Legal Frameworks

Elsevier Geological storage and sequestration of carbon dioxide, in saline aquifers, depleted oil and gas fields or unminable coal seams, represents one of the most important processes for reducing humankind's emissions of greenhouse gases. Geological storage of carbon dioxide (CO₂) reviews the techniques and wider implications of carbon dioxide capture and storage (CCS). Part one provides an overview of the fundamentals of the geological storage of CO₂. Chapters discuss anthropogenic climate change and the role of CCS, the modelling of storage capacity, injectivity, migration and trapping of CO₂, the monitoring of geological storage of CO₂, and the role of pressure in CCS. Chapters in part two move on to explore the environmental, social and regulatory aspects of CCS including CO₂ leakage from geological storage facilities, risk assessment of CO₂ storage complexes and public engagement in projects, and the legal framework for CCS. Finally, part three focuses on a variety of different projects and includes case studies of offshore CO₂ storage at Sleipner natural gas field beneath the North Sea, the CO₂CRC Otway Project in Australia, on-shore CO₂ storage at the Ketzin pilot site in Germany, and the K12-B CO₂ injection project in the Netherlands. Geological storage of carbon dioxide (CO₂) is a comprehensive resource for geoscientists and geotechnical engineers and academics and researches interested in the field. Reviews the techniques and wider implications of carbon dioxide capture and storage (CCS) An overview of the fundamentals of the geological storage of CO₂ discussing the modelling of storage capacity, injectivity, migration and trapping of CO₂ among other subjects Explores the environmental, social and regulatory aspects of CCS including CO₂ leakage from geological storage facilities, risk assessment of CO₂ storage complexes and the legal framework for CCS

SPE Computer Applications

ICIEPEG 2016

Proceedings of the International Conference on Integrated Petroleum Engineering and

Geosciences

Springer This book presents the proceedings of the 4th International Conference on Integrated Petroleum Engineering and Geosciences 2016 (ICIPEG 2016), held under the banner of World Engineering, Science & Technology Congress (ESTCON 2016) at Kuala Lumpur Convention Centre from August 15 to 17, 2016. It presents peer-reviewed research articles on exploration, while also exploring a new area: shale research. In this time of low oil prices, it highlights findings to maintain the exchange of knowledge between researchers, serving as a vital bridge-builder between engineers, geoscientists, academics, and industry.

Uncertainty Analysis and Reservoir Modeling

Developing and Managing Assets in an Uncertain World, AAPG Memoir 96

AAPG

Geophysical Monitoring for Geologic Carbon Storage

John Wiley & Sons Geophysical Monitoring for Geologic Carbon Storage Storing carbon dioxide in underground geological formations is emerging as a promising technology to reduce carbon dioxide emissions in the atmosphere. A range of geophysical techniques can be deployed to remotely track carbon dioxide plumes and monitor changes in the subsurface, which is critical for ensuring for safe, long-term storage. Geophysical Monitoring for Geologic Carbon Storage provides a comprehensive review of different geophysical techniques currently in use and being developed, assessing their advantages and limitations. Volume highlights include: Geodetic and surface monitoring techniques Subsurface monitoring using seismic techniques Subsurface monitoring using non-seismic techniques Case studies of geophysical monitoring at different geologic carbon storage sites The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

Progress in Industrial Mathematics at ECMI 2018

Springer Nature This book explores mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. The book gathers 81 contributions submitted to the 20th European Conference on Mathematics for Industry, ECMI 2018, which was held in Budapest, Hungary in June 2018. The application areas include: Applied Physics, Biology and Medicine, Cybersecurity, Data Science, Economics, Finance and Insurance, Energy, Production Systems, Social Challenges, and Vehicles and Transportation. In turn, the mathematical technologies discussed include: Combinatorial Optimization, Cooperative Games, Delay Differential Equations, Finite Elements, Hamilton-Jacobi Equations, Impulsive Control, Information Theory and Statistics, Inverse Problems, Machine Learning, Point Processes, Reaction-Diffusion Equations, Risk Processes, Scheduling Theory, Semidefinite Programming, Stochastic Approximation, Spatial Processes, System Identification, and Wavelets. The goal of the European Consortium for Mathematics in Industry (ECMI) conference series is to promote interaction between academia and industry, leading to innovations in both fields. These events have attracted leading experts from business, science and academia, and have promoted the application of novel mathematical technologies to industry. They have also encouraged industrial sectors to share challenging problems where mathematicians can provide fresh insights and perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to promote the use of innovative mathematics in industry.

First North American Conference on Multiphase Technology

Energy Geotechnics

Proceedings of the 1st International Conference on Energy Geotechnics, ICEGT 2016, Kiel, Germany, 29-31 August 2016

CRC Press Energy Geotechnics includes 97 technical papers presented at the 1st International Conference on Energy Geotechnics (ICEGT 2016, Kiel, Germany, 29-31 August 2016). The contributions provides significant advances and critical challenges facing the areas of fundamentals, constitutive and numerical modelling, testing techniques and energy geotechnics applications. Energy Geotechnics contains seven regular sessions and six minisymposia, with contributions on discrete and continuum based modelling as well as investigations based on experimental studies at various scales. The papers on discrete and continuum based modelling examine the behaviour of gas hydrate sediments, cyclic and Thermo-Hydro-Mechanical (T-H-M) modelling of energy piles, non-linear behaviour of energy geo-storage and geo-structures, deformation of geomaterials, modelling of borehole heat exchangers and energy walls, analysis of hydraulic fracturing and discontinuities in reservoirs, engineering problems involving gas hydrates sediments, and modelling of environmental impact of energy geotechnical processes. The technical papers on experimental investigations present small and large scale findings on particle effects, particle-particle and fluid-particle interactions, saturation and thermal effects, water retention, creep behaviour, T-H-M monitoring of energy geotechnical structures, new techniques in laboratory analysis, geomechanical behaviour and cyclic loading of geomaterials. Energy Geotechnics will be of interest to academic and non-academic parties working in the areas of energy production, transport and storage as well as in the fields of energy geotechnics and geomechanics, geotechnical engineering, soil and rock mechanics and geological engineering.

Report

Integration of Outcrop and Modern Analogs in Reservoir Modeling

AAPG Memoir 80

AAPG

SPE Journal

Oil & Gas Science and Technology

Revue de L'Institut Français Du Pétrole

Rock Mechanics and Rock Engineering: From the Past to the Future

CRC Press **Rock Mechanics and Rock Engineering: From the Past to the Future** contains the contributions presented at EUROCK2016, the 2016 International Symposium of the International Society for Rock Mechanics (ISRM 2016, Ürgüp, Cappadocia Region, Turkey, 29-31 August 2016). The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices, emphasizing the future direction of rock engineering technologies. The 204 accepted papers and eight keynote papers, are grouped into several main sections: - Fundamental rock mechanics - Rock properties and experimental rock mechanics - Analytical and numerical methods in rock engineering - Stability of slopes in civil and mining engineering - Design methodologies and analysis - Rock dynamics, rock mechanics and rock engineering at historical sites and monuments - Underground excavations in civil and mining engineering - Coupled processes in rock mass for underground storage and waste disposal - Rock mass characterization - Petroleum geomechanics - Carbon dioxide sequestration - Instrumentation-monitoring in rock engineering and back analysis - Risk management, and - the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture **Rock Mechanics and Rock Engineering: From the Past to the Future** will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2016, organized by the Turkish National Society for Rock Mechanics, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

ECMOR VII

European Assn of Geoscientists&

Carbon Dioxide in Terrestrial & Marine Environments

On the Physics and Chemistry of Carbon Dioxide Capture and Storage in Terrestrial and Marine Environments

LAP Lambert Academic Publishing The production of carbon dioxide from the oxidation of fossil-carbon over the past 200 years has resulted in the accumulation of CO₂ in the atmosphere. CO₂-like other greenhouse gases-slows the rate at which infrared radiation is emitted from the Earth. By increasing the concentration of CO₂ in the atmosphere, humanity is altering the Earth's radiation balance in potentially dangerous way. Mitigating humanity's impact on Earth's climate system requires transforming the global energy infrastructure to decrease anthropogenic emissions of CO₂. The body of work presented here covers a range of physical and chemical topics important for the mitigation of anthropogenic climate change through the capture and storage of carbon dioxide. This book is focused primarily on addressing CO₂ emissions from large stationary point-sources through CO₂ capture and storage. A portion of the work, however, is aimed at addressing the long tail of the CO₂ point-sources distribution by removing CO₂ directly from the atmosphere. The entire CCS supply chain from the thermodynamic limit of the work required the capture of CO₂ from power-plants to the long-term chemical and physical evolution of carbon dioxide.

SPE Reservoir Evaluation & Engineering

SIAM Journal on Scientific Computing

A Publication of the Society for Industrial and Applied Mathematics

Quantifying Uncertainty in Subsurface Systems

John Wiley & Sons 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: <https://eos.org/editors-vox/quantifying-uncertainty-about-earths-resources>

Digital Enterprise and Information Systems

International Conference, DEIS 2011, London, UK July 20 - 22, 2011, Proceedings

Springer Science & Business Media This volume constitutes the refereed proceedings of the International Conference on Digital Enterprise and Information Systems, held in London during July 20 - 22, 2011. The 70 revised full papers presented were carefully reviewed and selected. They are organized in topical sections on cryptography and data protection, embedded systems and software, information technology management, e-business applications and software, critical computing and storage, distributed and parallel applications, digital management products, image processing, digital enterprises, XML-based languages, digital libraries, and data mining.

Proceedings ... SPE Annual Technical Conference and Exhibition

Proceedings of the Annual Convention - Indonesian Petroleum Association

Proceedings

The Schlumberger Adventure

Science on the Run

Information Management and Industrial Geophysics at Schlumberger, 1920-1940

MIT Press In this engaging account, Geoffrey Bowker reveals how Schlumberger devised a method of testing potential oil fields, produced a rhetoric, and secured a position that allowed it to manipulate the definition of what a technology is. This is the story of how one company created and codified a new science "on the run," away from the confines of the laboratory. By construing its service as scientific, Schlumberger was able to get the edge on the competition and construct an enviable niche for itself in a fast-growing industry. In this engaging account, Geoffrey Bowker reveals how Schlumberger devised a method of testing potential oil fields, produced a rhetoric, and secured a position that allowed it to manipulate the definition of what a technology is. Bowker calls the heart of the story "The Two Measurements That Worked," and he renders it in the style of a myth. In so doing, he shows seamlessly how society becomes embedded even in that most basic and seemingly value-independent of scientific concepts: the measurement. Bowker describes the origins and peregrinations of Schlumberger, details the ways in which the science developed in the field was translated into a form that could be defended in a patent court, and analyzes the company's strategies within the broader context of industrial science. Inside Technology series

Productivity and Injectivity of Horizontal Wells

Annual Report

The Future of Geological Modelling in Hydrocarbon Development

Geological Society of London 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.

SPE Reservoir Engineering

An Official Publication of the Society of Petroleum Engineers

SPE Production & Operations

The Journal of Canadian Petroleum Technology