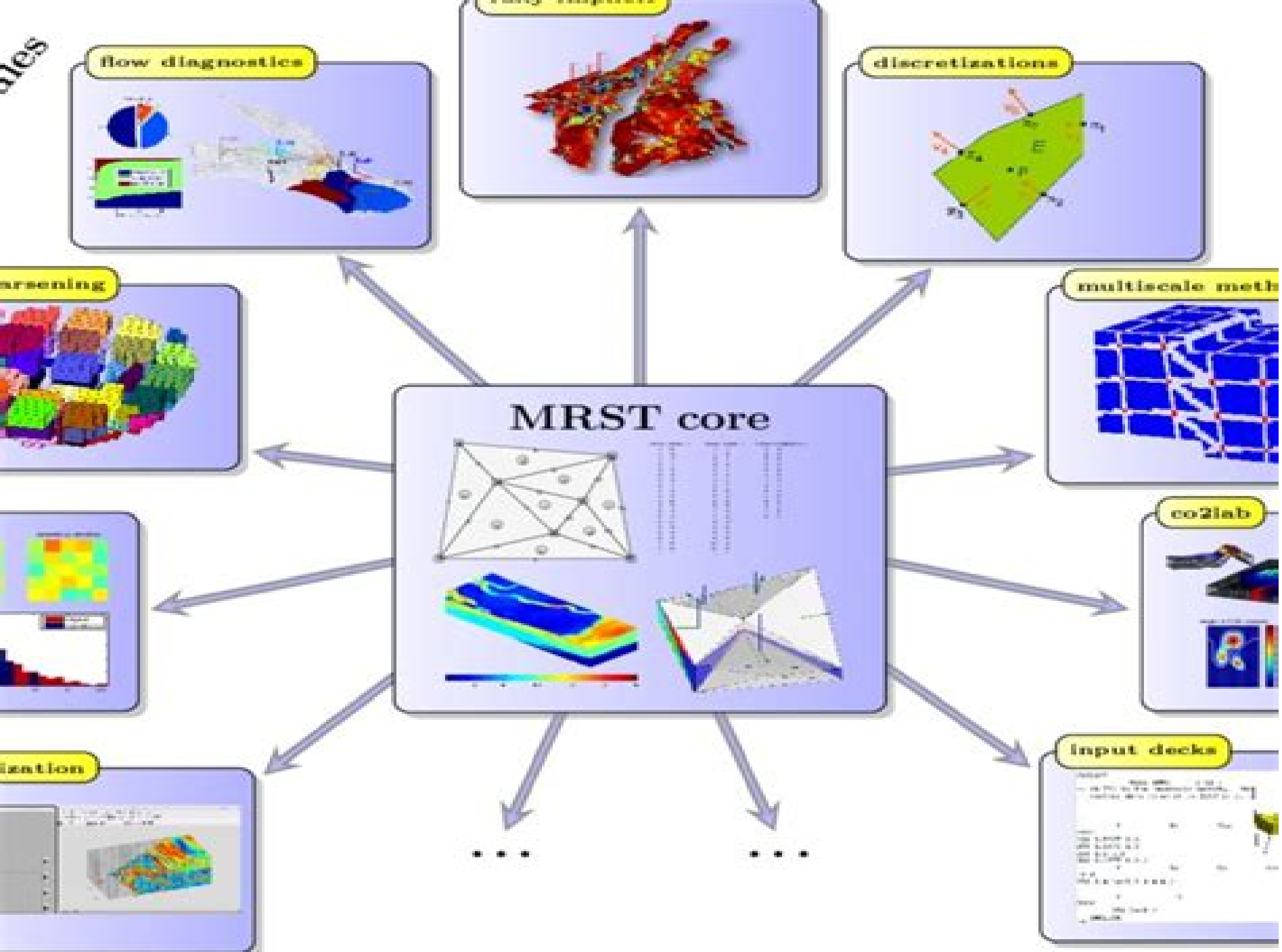


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The Matlab Reservoir Simulation Toolbox Mrst

Knut-Andreas Lie, Olav Møyner



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Advanced Modeling with the MATLAB Reservoir Simulation Toolbox Knut-Andreas Lie, Olav Møyner, 2021-11-25 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 This title is available as Open Access on Cambridge Core

An Introduction to Reservoir Simulation Using MATLAB/GNU Octave Knut-Andreas Lie, 2019 This book provides a self contained introduction to the simulation of flow and transport in porous media written by a developer of numerical methods The reader will learn how to implement reservoir simulation models and computational algorithms in a robust and efficient manner The book contains a large number of numerical examples all fully equipped with online code and data allowing the reader to reproduce results and use them as a starting point for their own work All of the examples in the book are based on the MATLAB Reservoir Simulation Toolbox MRST an open source toolbox popular popularity in both academic institutions and the petroleum industry The book can also be seen as a user guide to the MRST software It will prove invaluable for researchers professionals and advanced students using reservoir simulation methods This title is also available as Open Access on Cambridge Core

Supercomputing Vladimir Voevodin, Sergey Sobolev, 2022-01-03 This book constitutes the refereed post conference proceedings of the 7th Russian Supercomputing Days RuSCDays 2021 held in Moscow Russia in September 2021 The 37 revised full papers and 3 short papers presented were carefully reviewed and selected from 99 submissions The papers are organized in the following topical sections supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing

High Performance Computing in Clouds Edson Borin, Lúcia Maria A. Drummond, Jean-Luc Gaudiot, Alba Melo, Maicon Melo Alves, Philippe Olivier Alexandre Navaux, 2023-07-05 This book brings a thorough explanation on the path needed to use cloud computing technologies to run High Performance Computing HPC applications Besides presenting the motivation behind moving HPC applications to the cloud it covers both essential and advanced issues on this topic such as deploying HPC applications and infrastructures designing cloud friendly HPC applications and optimizing a provisioned cloud infrastructure to run this family of applications Additionally this book also describes the best practices to maintain and keep running HPC applications in the cloud by employing fault tolerance

techniques and avoiding resource wastage To give practical meaning to topics covered in this book it brings some case studies where HPC applications used in relevant scientific areas like Bioinformatics and Oil and Gas industry were moved to the cloud Moreover it also discusses how to train deep learning models in the cloud elucidating the key components and aspects necessary to train these models via different types of services offered by cloud providers Despite the vast bibliography about cloud computing and HPC to the best of our knowledge no existing manuscript has comprehensively covered these topics and discussed the steps methods and strategies to execute HPC applications in clouds Therefore we believe this title is useful for IT professionals and students and researchers interested in cutting edge technologies concepts and insights focusing on the use of cloud technologies to run HPC applications

Fundamentals and Practical Aspects of Gas Injection Reza Azin,Amin Izadpanahi,2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering

Underground Bio-methanation of Carbon Dioxide and Hydrogen in Depleted Gas Reservoirs: Site Selection and Biogeochemical Modelling Lin Wu,2025-08-12 The thesis focuses on Underground Bio Methanation UBM technology which utilizes methanogens to convert CO₂ and H₂ into methane CH₄ within porous rocks This technology offers benefits such as carbon circular utilization large scale underground energy storage and renewable CH₄ production making it increasingly relevant in the context of global warming and the transition to renewable energy However methanogens are sensitive to environmental factors and the injection of external gases can lead to complex interactions To address these challenges the thesis introduces a novel evaluation criteria system for UBM site selection consisting of four main criteria technology safety society and economy and 20 sub criteria An integrated multi criteria decision making MCDM method is proposed which balances subjective and objective factors A case study in the Sichuan Basin identified site A1 as the most suitable for UBM with stable ranking results prompting further biogeochemical modeling The thesis also develops a microbial growth kinetics model using PHREEQC software to analyze competition among methanogens acetogens and sulfate reducing bacteria SRB during UBM Findings indicate that methanogens thrive in the presence of carbonate minerals with significant CO₂ and H₂ utilization for CH₄ synthesis However factors like pH changes and SRB metabolism can hinder methanogen function Additionally the research assesses the effects of cyclic UBM on the gas water rock system revealing that alternating acidity and alkalinity during cycles lead to minimal changes in porosity

Increased cycles result in decreased salinity and gas storage capacity while temperature changes due to methanogen metabolism are influenced by heat loss In summary this thesis provides a comprehensive study of UBM site selection and offers valuable insights for underground storage of gases The findings enhance understanding of microbial interactions in UBM and the impact of cyclic processes serving as a theoretical guide for future site selection and optimization in this field

30th European Symposium on Computer Aided Chemical Engineering Sauro Pierucci, Flavio Manenti, Giulia Luisa Bozzano, Davide Manca, 2020-10-23 30th European Symposium on Computer Aided Chemical Engineering Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering ESCAPE event held in Milan Italy May 24-27 2020 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 30th European Symposium of Computer Aided Process Engineering ESCAPE event Offers a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Fluid Mechanics and Fluid Power – Contemporary Research Arun K. Saha, Debopam Das, Rajesh Srivastava, P. K. Panigrahi, K. Muralidhar, 2016-09-20 This volume comprises the proceedings of the 42nd National and 5th International Conference on Fluid Mechanics and Fluid Power held at IIT Kanpur in December 2014 The conference proceedings encapsulate the best deliberations held during the conference The diversity of participation in the conference from academia industry and research laboratories reflects in the articles appearing in the volume This contributed volume has articles from authors who have participated in the conference on thematic areas such as Fundamental Issues and Perspectives in Fluid Mechanics Measurement Techniques and Instrumentation Computational Fluid Dynamics Instability Transition and Turbulence Turbomachinery Multiphase Flows Fluid Structure Interaction and Flow Induced Noise Microfluidics Bio inspired Fluid Mechanics Internal Combustion Engines and Gas Turbines and Specialized Topics The contents of this volume will prove useful to researchers from industry and academia alike **Clean Energy Research** Lin Chen, 2025-11-20 This book provides readers with the latest developments and innovations in clean energy resources and systems energy economics and energy policies Designed to help move towards a cleaner more sustainable energy landscape it offers theoretical insights practical knowledge and case studies on clean energy technology It covers sustainable methods for increasing energy efficiency and examines current concepts and solutions to global energy storage and energy saving issues including wind energy technology and offshore potential advanced solar energy systems and case studies hydrogen production storage and material challenges carbon capture storage and resource utilization bioenergy and sustainable fuel innovations energy system optimization and thermal management Clean Energy Research Now and in the Future is an essential guide to up to date research results for scientists practitioners engineers students and researchers **Progress and Challenge of Porous Media: Proceedings of the 16th Annual Meeting Conference on Porous Media** Jun Yao, Yongfei Yang, Wendong

Wang,Hai Sun,Lei Zhang,Kai Zhang,2025-04-08 This book is a compilation of selected papers from the 16th Annual Meeting Conference on Porous Media InterPore 2024 The work focuses on novel techniques for porous media materials transport mechanisms in porous media multiscale multiphysics pore scale modeling and porous media mechanics The contents make valuable contributions to academic researchers engineers in the industry and regulators of aviation authorities As well readers will encounter new ideas for problems in porous media science and engineering Reservoir Modeling : Test on the Sintef Matlab Toolbox (MRST) and InSAR Contribution for Permeability Mapping Floriane Provost,2013 **Multilateral Well Modeling from Compartmentalized Reservoirs** Oluwadairo Kayode,2018 The existence of compartmentalization in oil and gas fields have been a major industry challenge for decades This phenomenon introduces some complexity and uncertainty in the prediction of well productivities and the overall hydrocarbon recovery factor In the past multiple vertical wells were drilled to increase recovery The recent advancement of the multilateral and completions technology made multilateral wells a viable alternative to produce multiple reservoir compartments most especially offshore Reservoir compartments may possess a set of unique characteristics such as average pressures thicknesses permeabilities and porosity distribution This variation in properties introduced complex dynamics in forecasting the commingled production figures and overall recovery factor from complex reservoir structures using advanced well systems Existing analytical and semi analytical productivity models due to the simplifying assumptions in their development are only suitable for first approximations and early estimates in field applications In this work a comparison is made between the more widely known finite difference numerical method and the finite volume numerical discretization method in field productivity predictions The Matlab Reservoir Simulation Toolbox MRST which is a collection of open source codes based on the finite volume discretization methodology is used to develop the reservoir compartment and multilateral well model used in this study We investigate the pressure drop behavior over time through the lateral for a conventional well completion and compare with the pressure drop behavior for a smart well completion with downhole flow control devices for flow control and optimization Several cases of compartmentalized reservoirs with faults of varying orientation and sealing capacity is then investigated The production profile results obtained from the base reservoir case from MRST is compared to those from the IMEX simulator tool in CMG Computer Modeling Group a commercial reservoir simulator based on the finite difference numerical discretization method The results we obtain show a more accurate production profile prediction based on the finite volume method over the finite difference method as expected The ability of the simulation toolbox as well as the importance of using an improved and more efficient numerical discretization scheme in solving an increasingly complex array of reservoir structures and advanced well geometries with multiphase fluid flow is demonstrated Finally an adjoint gradient based method of optimization implemented in the toolbox is used to investigate the optimization potential of using the smart well completions versus a conventional well completion with the net present value as the objective function Results obtained show that an investment in smart

completions for the multilateral well ultimately yields a higher net cash flow and net present value over a conventional well of equivalent length designed without smart completions Numerical Modeling of the Flow and Transport Behavior of Low-salinity Waterflooding in MATLAB Reservoir Simulation Toolbox Rishi Jumani,2015 *Principles of Applied Reservoir Simulation* John R. Fanchi,1997 Not a mathematical treatise nor just a compendium of case histories this text describes and shows how to apply reservoir simulation technology and principles For the petroleum engineering professional here is a fully functioning reservoir simulation For the novice it is a valuable hands on introduction to the process of reservoir modeling Without an overabundance of math and case histories this text describes and then shows how to apply reservoir simulation technology and principles Written by a veteran developer and user of reservoir models Combines concepts and terminology DOS based software to clearly present a comprehensive overview of reservoir simulation principles and their applications

Reservoir Simulation Zhangxin Chen,2007-01-01 Beginning with an overview of classical reservoir engineering and basic reservoir simulation methods this book then progresses through a discussion of types of flows single phase two phase black oil three phase single phase with multi components compositional and thermal The author provides a thorough glossary of petroleum engineering terms and their units along with basic flow and transport equations and their unusual features and corresponding rock and fluid properties The book also summarises the practical aspects of reservoir simulation such as data gathering and analysis and reservoir performance prediction Suitable as a text for advanced undergraduate and first year graduate students in geology petroleum engineering and applied mathematics as a reference book or as a handbook for practitioners in the oil industry Prerequisites are calculus basic physics and some knowledge of partial differential equations and matrix algebra **Multiphase Flow and Fault Poromechanics** Josimar Alves da Silva Junior,2020 In this Thesis we investigate natural and engineered processes related to the assessment of the seismic hazard from the impact of anthropogenic operations on the stability of pre existing geological faults We do so by developing simulation tools that coupled multiphase flow and geomechanics and apply them at the field scale using geologically realistic representations of the subsurface In a first contribution at the scale of individual fractures we study the impact of confining stress on the capillary pressure behavior during drainage through rough fractures where we find that capillary pressure variations are sensitive to the degree of confining stress and the degree of spatial correlation of the fracture aperture By solving the elastic contact problem and simulating slow two phase displacements through the fracture gap we uncover the universality class of avalanche size in fluid displacement and find that it is consistent with a process controlled by self organized criticality In a second contribution at the scale of hundreds of kilometers we address the importance of long term large scale crustal deformation on the spatiotemporal distribution of Slow Slip Events SSEs in the Guerrero Gap putting forward an alternative explanation for SSE nucleation interval time and arrest We show by means of finite element simulations with rate state friction that fault geometry and crustal deformation control the nucleation and arrest of SSEs via normal stress changes

along the subducting slab that act as a mechanism for SSE stabilization In a third contribution we develop a two way coupled multiphase flow and geomechanics model that rigorously accounts for the fluid solid interaction We do so by coupling two well established open source simulators the open source finite element mechanical simulator PyLith and the finite volume open source flow simulator MATLAB Reservoir Simulation Toolbox MRST We employ the fixed stress split of the fully coupled problem which renders the sequential iterative scheme unconditionally stable We validate our implementation using analytical solutions for single phase flow for a range of model parameters and find excellent agreement in all cases We then apply our simulator to synthetic cases to illustrate the impact of CO₂ injection on earthquake triggering on a pre existing fault demonstrating that poroelastic effects can have a strong fault weakening effect even through impermeable geologic strata In the two final contributions in this thesis we apply the coupled multiphase flow and geomechanics simulator described above to assess seismic hazard from fluid injection at the reservoir scale In our first application we revisit the classical experiment in earthquake control from water injection at the Rangely oil field Colorado The coupled flow geomechanics simulations on a geologically constrained structural model of the Rangely field along with reservoir pressure and seismological data provide an unique opportunity to understand the mechanisms responsible for the observed seismicity In particular our analysis allows us to separate the contributions to fault destabilization from direct pore pressure diffusion and poroelastic effects and to elucidate the fundamental role of fluid flow along the fault In our second field scale application we investigate the impact of industrial scale CO₂ storage on the stability of and potential leakage along pre existing faults in the Gulf of Mexico GoM We do so by performing 3D numerical simulations of coupled flow and geomechanics using high fidelity geological models of the Miocene section of the GoM both at the field scale 10s of km and at the regional scale 100s of km We pay particular attention to the frictional and hydraulic properties of unlithified sedimentary faults and incorporate a detailed physics based probabilistic representation of clay and sand smearing to populate the flow properties of normal faults We then investigate different scenarios of injection well location in relation with faults geometry and architecture representing geologic settings corresponding to open and closed reservoirs The results of our flow geomechanics simulations suggest that CO₂ injection results in small fault destabilization and vanishingly small probability of leakage along faults supporting the notion that large scale 100s of Mt CO₂ injection in the GoM is feasible but that well location is key for the success of individual Carbon Capture and Storage CCS projects

Petroleum Reservoir Simulation J.H. Abou-Kassem, M. Rafiqul Islam, S.M. Farouq-Ali, 2020-01-14 Petroleum Reservoir Simulation Second Edition introduces this novel engineering approach for petroleum reservoir modeling and operations simulations Updated with new exercises a new glossary and a new chapter on how to create the data to run a simulation this comprehensive reference presents step by step numerical procedures in an easy to understand format Packed with practical examples and guidelines this updated edition continues to deliver an essential tool for all petroleum and reservoir engineers Includes new exercises a glossary and references Bridges

research and practice with guidelines on introducing basic reservoir simulation parameters such as history matching and decision tree content Helps readers apply knowledge with assistance on how to prepare data files to run a reservoir simulator

The Mathematics of Reservoir Simulation Richard E. Ewing, 2014-12-01 This book describes the state of the art of the mathematical theory and numerical analysis of imaging Some of the applications covered in the book include computerized tomography magnetic resonance imaging emission tomography electron microscopy ultrasound transmission tomography industrial tomography seismic tomography impedance tomography and NIR imaging

Mathematical Models and Finite Elements for Reservoir Simulation G. Chavent, J. Jaffré, 1986-01-01 Numerical simulators for oil reservoirs have been developed over the last twenty years and are now widely used by oil companies The research however has taken place largely within the industry itself and has remained somewhat inaccessible to the scientific community This book hopes to remedy the situation by means of its synthesized presentation of the models used in reservoir simulation in a form understandable to both mathematicians and engineers The book aims to initiate a rigorous mathematical study of the immiscible flow models partly by using the novel global pressure approach in treating incompressible two phase problems A finite element approximation technique based on the global pressure variational model is presented and new approaches to the modelling of various kinds of multiphase flow through porous media are introduced Much of the material is highly original and has not been presented elsewhere The mathematical and numerical models should be of great interest to applied mathematicians and to engineers seeking an alternative approach to reservoir modelling

Reservoir Simulations Shuyu Sun, Tao Zhang, 2020-06-18 Reservoir Simulation Machine Learning and Modeling helps the engineer step into the current and most popular advances in reservoir simulation learning from current experiments and speeding up potential collaboration opportunities in research and technology This reference explains common terminology concepts and equations through multiple figures and rigorous derivations better preparing the engineer for the next step forward in a modeling project and avoid repeating existing progress Well designed exercises case studies and numerical examples give the engineer a faster start on advancing their own cases Both computational methods and engineering cases are explained bridging the opportunities between computational science and petroleum engineering This book delivers a critical reference for today's petroleum and reservoir engineer to optimize more complex developments Understand commonly used and recent progress on definitions models and solution methods used in reservoir simulation World leading modeling and algorithms to study flow and transport behaviors in reservoirs as well as the application of machine learning Gain practical knowledge with hand on trainings on modeling and simulation through well designed case studies and numerical examples

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