ECLIPSE

Industry-reference reservoir simulator

BENEFITS AND FEATURES

- Unrivalled depth and breadth of functionality
- Robust, reliable reference simulator
- Blackoil, compositional, and thermal simulation
- Heavy oil recovery
- Chemical enhanced oil recovery
- CO_2 storage
- Coal and shale gas
- Faster runtimes with parallel processing
- Complex wells and completions
- Flexible reservoir control and field management
- Reserves estimation
- Production forecasting
- Design optimization
- History matching
- Uncertainty and sensitivity analyses
- Streamline-based screening and pattern flood management
- Fully integrated with the Petrel* E&P software platform

The ECLIPSE* industry-reference reservoir simulator offers the industry's most complete and comprehensive set of numerical solutions for fast and accurate prediction of dynamic behavior for all types of reservoirs, development planning, and operations. With over 30 years of continuous software development and innovation, the ECLIPSE simulator combines extensive capabilities, computational robustness, speed, and unmatched platform coverage.

Simulate any field type, any recovery method

The ECLIPSE simulator covers the entire spectrum of reservoir simulation, including black oil, compositional, thermal finite volume reservoir, and streamline simulation. This enables you to simulate any type of reservoir, with any recovery method—from waterflooding to heavy oil recovery and chemical enhanced oil recovery (EOR).
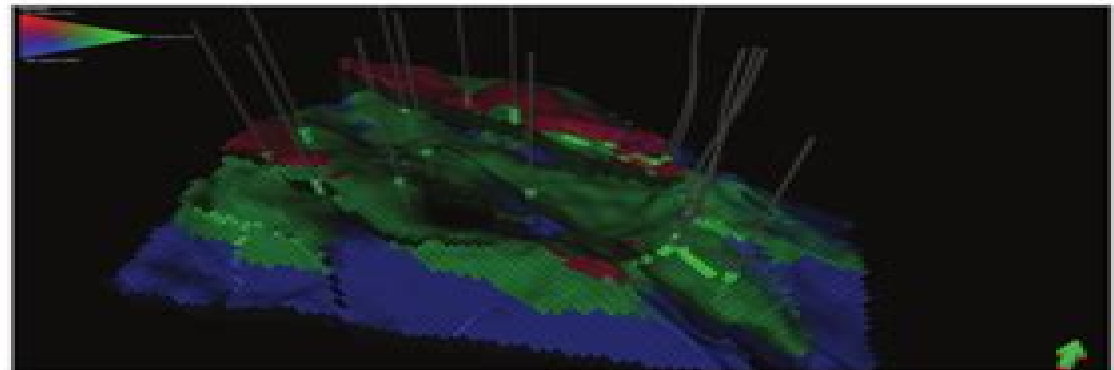
Blackoil simulation

The ECLIPSE Blackoil simulator is the industry standard for reservoir modeling. It supports three-phase, 3D reservoir simulation with a huge range of capabilities, including extensive well controls, field operations planning, fault and fracture networks, aquifers, tracer tracking, advanced well and completion modeling, and EOR schemes.

Compositional simulation

The ECLIPSE Compositional simulator provides full equation of state modeling for multicomponent hydrocarbon flow in reservoirs in which there are compositional changes with depth, condensates or volatile crude oils, and gas injection programs. In addition to supporting the same unrivalled range of capabilities as the Blackoil simulator, the ECLIPSE Compositional simulator allows you to model chemical reactions, and CO_2 flooding and storage.

Thermal simulation for heavy oil recovery

Thermal recovery methods are required for heavy oil reservoirs in which oil viscosity changes as a function of temperature. The ECLIPSE Thermal simulator supports a wide range of thermal recovery process, including steam injection, steam flooding, steam assisted gravity drainage (SAGD), hot or cold fluid injection, wellbore heaters, in situ combustion, and cold heavy oil production with sand.

Fluid saturations from a full-field ECLIPSE simulation.

Eclipse Reservoir Simulator Manual

Céline Scheidt,Lewis Li,Jef Caers

Eclipse Reservoir Simulator Manual:

Production Technology for Deep Reservoirs Yan Peng,Yishan Liu,Hongyan Qu,Feng Dong,Jiehao Wang,2024-11-28 Underground energy is important for the whole society development but conventional underground energy is becoming exhausted The energy for deep reservoirs usually 3500m for petroleum engineering 1000m for mining engineering is diverse including not limited shale gas oil tight gas oil hot dry rock geothermal reservoirs and coal gasification Although it has abundant reserves the energy production from deep reservoirs is difficult in stimulations because the geological conditions for those deep reservoirs are tougher than those for conventional reservoirs such as high in situ stress obvious heterogeneity in rock properties and complex natural fracture networks Meanwhile common technologies also have environmental impacts The development trend of production technology for deep reservoirs requires it to be environment friendly or decrease environmental impacts at least CO_2 utilization may achieve this environmental aim In order to efficiently produce energy from deep reservoirs technological innovation is booming around North America Europe and Asia **An Introduction to Reservoir Simulation Using MATLAB/GNU Octave** Knut-Andreas Lie,2019-08-08 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 **Rock Mechanics and Rock Engineering: From the Past to the Future** Reşat Ulusay,2016-11-18 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 rg p 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 **GRID and GEOMAP User's Reference Manual** Exploration Consultants Limited,1989 ICIPEG 2016 Mariyamni Awang,Berihun Mamo Negash,Nur Asyraf Md Akhir,Luluan Almanna Lubis,Abdul Ghani Md. Rafek,2017-01-20 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 **Enhanced Oil Recovery Field Case Studies** James J. Sheng,2013-04-10 This chapter first summarizes the fundamentals about foams used in enhancing oil recovery These fundamentals include characteristics of foams foam stability mechanisms of foam flooding to enhance oil recovery and foam flow behavior Foam application modes and the factors that need to be considered in designing foam flooding applications are discussed Some survey results about foam projects are summarized Finally several field application cases to enhance oil recovery are presented Quantifying Uncertainty in Subsurface Systems Céline Scheidt,Lewis Li,Jef Caers,2018-04-27 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 **SPE Reservoir Engineering** ,1997 ECMOR VII European Conference on the Mathematics of Oil Recovery. 7, 2000, Baveno,2000 Circular Oklahoma Geological Survey,1996 **Petroleum-reservoir Geology in the Southern Midcontinent, 1991 Symposium** ,1993 *World Oil* ,1987 **SPE Journal** ,2009 Circular - Oklahoma Geological Survey Oklahoma Geological Survey,1996 *Proceedings [of The] Asia Pacific Oil & Gas Conference* ,1995 *Ocean Industry* ,1987 **SPE Computer Applications** ,1997 **Proceedings** ,1994 **Proceedings ... SPE Annual Technical Conference and Exhibition** Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1996 *SPE Reservoir Evaluation & Engineering* ,2010

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