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ECLIPSE reservoir simulation software

Improving simulation data

**Schlumberger**

# Eclipse Petroleum Software Manual

**JR Anderson**



## **Eclipse Petroleum Software Manual:**

**Efficient Simulation of Thermal Enhanced Oil Recovery Processes** Zhouyuan Zhu, 2011

Simulating thermal processes is usually computationally expensive because of the complexity of the problem and strong nonlinearities encountered. In this work we explore novel and efficient simulation techniques to solve thermal enhanced oil recovery problems. We focus on two major topics: the extension of streamline simulation for thermal enhanced oil recovery and the efficient simulation of chemical reaction kinetics as applied to the in situ combustion process. For thermal streamline simulation we first study the extension to hot water flood processes in which we have temperature induced viscosity changes and thermal volume changes. We first compute the pressure field on an Eulerian grid. We then solve for the advective parts of the mass balance and energy equations along the individual streamlines accounting for the compressibility effects. At the end of each global time step we account for the nonadvective terms on the Eulerian grid along with gravity using operator splitting. We test our streamline simulator and compare the results with a commercial thermal simulator. Sensitivity studies for compressibility, gravity, and thermal conduction effects are presented. We further extended our thermal streamline simulation to steam flooding. Steam flooding exhibits large volume changes and compressibility associated with the phase behavior of steam, strong gravity segregation, and highly coupled energy and mass transport. To overcome these challenges we implement a novel pressure update along the streamlines, a Glowinski scheme, operator splitting, and a preliminary streamline finite volume hybrid approach. We tested our streamline simulator on a series of test cases. We compared our thermal streamline results with those computed by a commercial thermal simulator for both accuracy and efficiency. For the cases investigated we are able to retain solution accuracy while reducing computational cost and gaining connectivity information from the streamlines. These aspects are useful for reservoir engineering purposes. In traditional thermal reactive reservoir simulation, mass and energy balance equations are solved numerically on discretized reservoir grid blocks. The reaction terms are calculated through Arrhenius kinetics using cell averaged properties such as averaged temperature and reactant concentrations. For the in situ combustion process the chemical reaction front is physically very narrow, typically a few inches thick. To capture accurately this front, centimeter sized grids are required that are orders of magnitude smaller than the affordable grid block sizes for full field reservoir models. To solve this grid size effect problem we propose a new method based on a non-Arrhenius reaction upscaling approach. We do not resolve the combustion front on the grid but instead use a subgrid scale model that captures the overall effects of the combustion reactions on flow and transport, i.e., the amount of heat released, the amount of oil burned, and the reaction products generated. The subgrid scale model is calibrated using fine scale, highly accurate numerical simulation and laboratory experiments. This approach significantly improves the computational speed of in situ combustion simulation as compared to traditional methods. We propose the detailed procedures to implement this methodology in a field scale simulator. Test cases illustrate the solution consistency.

when scaling up the grid sizes in multidimensional heterogeneous problems The methodology is also applicable to other subsurface reactive flow modeling problems with fast chemical reactions and sharp fronts Displacement front stability is a major concern in the design of all the enhanced oil recovery processes Historically premature combustion front breakthrough has been an issue for field operations of in situ combustion In this work we perform detailed analysis based on both analytical methods and numerical simulation We identify the different flow regimes and several driving fronts in a typical 1D ISC process For the ISC process in a conventional mobile heavy oil reservoir we identify the most critical front as the front of steam plateau driving the cold oil bank We discuss the five main contributors for this front stability instability viscous force condensation heat conduction coke plugging and gravity Detailed numerical tests are performed to test and rank the relative importance of all these different effects

*29th European Symposium on Computer Aided Chemical Engineering* Anton A. Kiss, Edwin Zondervan, Richard Lakerveld, Leyla Özkan, 2019-06-28 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

**Petroleum Software Directory**, 1997 *The Journal of Canadian Petroleum Technology*, 2009 *Shale* Thomas Dewers, Jason Heath, Marcelo Sánchez, 2019-09-16 Advances in theories methods and applications for shale resource use Shale is the dominant rock in the sedimentary record It is also the subject of increased interest because of the growing contribution of shale oil and gas to energy supplies as well as the potential use of shale formations for carbon dioxide sequestration and nuclear waste storage Shale Subsurface Science and Engineering brings together geoscience and engineering to present the latest models methods and applications for understanding and exploiting shale formations Volume highlights include Review of current knowledge on shale geology Latest shale engineering methods such as horizontal drilling Reservoir management practices for optimized oil and gas field development Examples of economically and environmentally viable methods of hydrocarbon extraction from shale Discussion of issues relating to hydraulic fracking carbon sequestration and nuclear waste storage Book Review I D Sasowsky University of Akron Ohio September 2020 issue of CHOICE CHOICE connect A publication of the Association of College and Research Libraries A division of the American Library Association Connecticut USA Shale has a long history of use as construction fill and a ceramic precursor In recent years its potential as a petroleum reservoir has generated renewed interest and intense scientific investigation Such work has been significantly aided by the development of instrumentation capable of examining and imaging these very fine grained materials This timely multiauthor volume brings together 15 studies covering many facets of the related science The book is presented in two sections an overview and a second section emphasizing unconventional oil and gas Topics covered include

shale chemistry metals content rock mechanics borehole stability modeling and fluid flow to name only a few The introductory chapter 24 pages is useful and extensively referenced The lead chapter to the second half of the book Characterization of Unconventional Resource Shales provides a notably detailed analysis supporting a comprehensive production workflow The book is richly illustrated in full color featuring high quality images graphs and charts The extensive index provides depth of access to the volume This work will be of special interest to a diverse group of investigators moving forward with understanding this fascinating group of rocks Summing Up Recommended Upper division undergraduates through faculty and professionals

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## **Eclipse Petroleum Software Manual Book Review: Unveiling the Magic of Language**

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Eclipse Petroleum Software Manual**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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