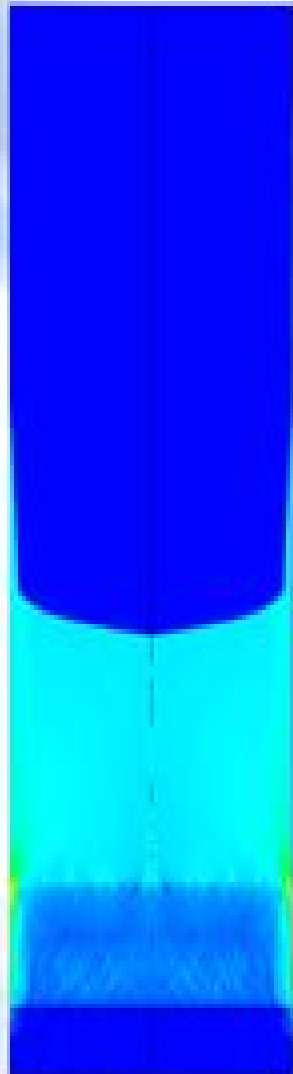


Multiphase Flow in Porous Medium, Filter Cake Formation



The present problem simulates multiphase flow in a porous medium using ANSYS Fluent software



Multiphase Flow In Porous Media

**Myron B. III Allen, Grace A. Behie, John
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Behie, John A. Trangenstein, 2013-03-08 The past decade has seen remarkable growth in research related to petroleum reservoir simulation. This growth reflects several developments, not the least of which is the increased interest in oil recovery technologies requiring sophisticated engineering. Augmenting this interest has been the broader availability of supercomputers capable of handling the tremendous computational demands of a typical reservoir simulator. The field of reservoir simulation incorporates several major facets of applied mathematics. First in view of the variety and complexity of the processes encountered it is imperative that the modeler adopt a systematic approach to establishing the equations governing reservoir flows. Second the mathematical structure of these flow equations needs to be carefully analyzed in order to develop appropriate and efficient numerical methods for their solution. Third since some aspects of the discretized flow equations are typically stiff one must develop efficient schemes for solving large sparse systems of linear equations. This monograph has three parts each devoted to one of these three aspects of reservoir modeling. The text grew out of a set of lectures presented by the authors in the autumn of 1986 at the IBM Scientific Center in Bergen, Norway. We feel that it is only appropriate to caution the reader that many of the ideas that we present in this monograph do not reflect standard approaches in petroleum reservoir simulation. In fact our aim is to outline promising new ways of attacking reservoir simulation problems rather than to compile another textbook for the mainstream. *Multiphase Flow in Porous Media*

Farad Kamyabi, 2014-10-09 In the hydrocarbon reservoirs that are normally saturated with two or more fluids in order for better description of the flowing fluids behaviors and rock fluid interaction the concept of relative permeability and capillary pressure should be exploited. Brilliant by Petrell AS is an object oriented C multi physics Computational Fluid Dynamics CFD package developed for simulation of flow. In the continuous process of improving the system the aim of this work is to model the multiphase flow through porous media using Darcy's equation. The models in the developed code are based on the conservation equation for each mass to obtain the pressure and saturation fields. After the code is benchmarked against the results from Eclipse for the simulation of single phase flow another phase is added to the porous flow part of the code to perform the simulation of multiphase flow through porous media. In this process first the transmissibilities in the already implemented FVM code have been corrected. Then capillary pressure equations and different relative permeability models have been added to the code. **Multiphase Flow Through Porous Media** Richard Lee Christiansen, 2008-06

MULTIPHASE FLOW OF IMMISCIBLE FLUIDS IN POROUS MEDIA (JUNE 1962) UNIVERSITY OF MICHIGAN, 1962 *Measurement and Scale-up of Multiphase Flow in Porous Media* Yung-Cheng Chang, 1996

Numerical Simulation of Multiphase Flow in Porous Media David J. Brush, University of Waterloo. Department of Civil Engineering, 1994 *Multiphase Flow in Porous Media* Vanita Mani, 1998 **Multi-phase Flow in Porous Media** John A. Trangenstein, 1987 **A New Simulation Model for Multiphase Flow in Porous Media** Etim Idorenyin, 2010 The production methods highlighted above are immiscible displacement strategies. A displacing fluid, usually water or gas, is

injected into the reservoir and forced to sweep through the portion of the reservoir lying between an injection well and a production well. As the injection fluid travels it mobilizes and pushes any oil in its path to the production well. The success of these strategies significantly depends on the knowledge of the physics of multiphase flow in porous media. Traditional reservoir engineering models flow in porous media using Darcy's empirical transport rule. Darcy's law is a phenomenologically derived constitutive equation that describes flow in porous media from a macroscopic standpoint. It fails to account for microscopic fluid interactions and pore level variations that play significant roles even in the macroscopic manifestation of multiphase flow.

Multiphase Flow in Porous Media Jessica Ann Wald, 1989 [Multiphase Flow in Permeable Media](#) Martin J. Blunt, 2017-02-16 Hydrocarbon production gas recovery from shale CO₂ storage and water management have a common scientific underpinning: multiphase flow in porous media. This book provides a fundamental description of multiphase flow through porous rock with emphasis on the understanding of displacement processes at the pore or micron scale. Fundamental equations and principal concepts using energy, momentum, and mass balance are developed, and the latest developments in high-resolution three-dimensional imaging and associated modelling are explored. The treatment is pedagogical, developing sound physical principles to predict flow and recovery through complex rock structures while providing a review of the recent literature. This systematic approach makes it an excellent reference for those who are new to the field. Inspired by recent research and based on courses taught to thousands of students and professionals from around the world, it provides the scientific background necessary for a quantitative assessment of multiphase subsurface flow processes and is ideal for hydrology and environmental engineering students as well as professionals in the hydrocarbon, water, and carbon storage industries.

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and mathematical aspects of multiphase flow and transport Not only will readers better understand general governing equations they will also be able to apply the equations to specific physical problems involving single and multiphase flow and transport in porous media Because in depth knowledge of continuum mechanics mixture theory porous media flow and averaging theory is not assumed this book is a timely reference for advanced undergraduate students and graduate students practicing hydrogeologists engineers and scientists and those interested in developing mastery of the important fundamental principles that underlie modeling of multiphase systems

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