



# Multiphase Fluid Flow in Porous and Fractured Reservoirs



Yu-Shu Wu

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P M

# Multiphase Fluid Flow In Porous And Fractured Reservoirs

**Kuriyit Nakornthap**

## **Multiphase Fluid Flow In Porous And Fractured Reservoirs:**

**Multiphase Fluid Flow in Porous and Fractured Reservoirs** Yu-Shu Wu,2015-09-23 Multiphase Fluid Flow in Porous and Fractured Reservoirs discusses the process of modeling fluid flow in petroleum and natural gas reservoirs a practice that has become increasingly complex thanks to multiple fractures in horizontal drilling and the discovery of more unconventional reservoirs and resources The book updates the reservoir engineer of today with the latest developments in reservoir simulation by combining a powerhouse of theory analytical and numerical methods to create stronger verification and validation modeling methods ultimately improving recovery in stagnant and complex reservoirs Going beyond the standard topics in past literature coverage includes well treatment Non Newtonian fluids and rheological models multiphase fluid coupled with geomechanics in reservoirs and modeling applications for unconventional petroleum resources The book equips today s reservoir engineer and modeler with the most relevant tools and knowledge to establish and solidify stronger oil and gas recovery Delivers updates on recent developments in reservoir simulation such as modeling approaches for multiphase flow simulation of fractured media and unconventional reservoirs Explains analytical solutions and approaches as well as applications to modeling verification for today s reservoir problems such as evaluating saturation and pressure profiles and recovery factors or displacement efficiency Utilize practical codes and programs featured from online companion website

**Characterization of Fluid Flow in Naturally Fractured Reservoirs. Final Report** ,1981 This report summarizes the results of a four month study of the characteristics of multiphase flow in naturally fractured porous media An assessment and evaluation of the literature was carried out and a comprehensive list of references compiled on the subject Mathematical models presented in the various references cited were evaluated along with the stated assumptions or those inherent in the equations Particular attention was focused upon identifying unique approaches which would lead to the formulation of a general mathematical model of multiphase multi component flow in fractured porous media A model is presented which may be used to more accurately predict the movement of multi phase fluids through such type formations Equations of motion are derived for a multiphase multicomponent fluid which is flowing through a double porosity double permeability medium consisting of isotropic primary rock matrix blocks and an anisotropic fracture matrix system The fractures are assumed to have a general statistical distribution in space and orientation A general distribution function called the fracture matrix function is introduced to represent the statistical nature of the fractures

**Fluid Flow and Transport in Porous Media, Mathematical and Numerical Treatment** Zhangxin Chen, Richard E. Ewing,2002 The June 2001 conference brought together mathematicians computational scientists and engineers working on the mathematical and numerical treatment of fluid flow and transport in porous media This collection of 43 papers from that conference reports on recent advances in network flow modeling parallel computation optimization upscaling uncertainty reduction media characterization and chemically reactive phenomena Topics include modeling horizontal wells using hybrid grids in reservoir simulation a high

order Lagrangian scheme for flow through unsaturated porous media and a streamline front tracking method for two and three phase flow No index Annotation copyrighted by Book News Inc Portland OR **Numerical Simulation of Single-phase and Multiphase Non-Darcy Flow in Porous and Fractured Reservoirs**, 2000 A numerical method as well as a theoretical study of non Darcy fluid flow of through porous and fractured reservoirs is described The non Darcy flow is handled in a three dimensional multiphase flow reservoir simulator while the model formulation incorporates the Forchheimer equation for describing single phase or multiphase non Darcy flow and displacement The numerical scheme has been verified by comparing its results against those of analytical methods Numerical solutions are used to obtain some insight into the physics of non Darcy flow and displacement in reservoirs In addition several type curves are provided for well test analyses of non Darcy flow to demonstrate a methodology for modeling this type of flow in porous and fractured rocks including flow in geothermal reservoirs **Selected Topics of Computational and Experimental Fluid Mechanics**

Jaime Klapp, Gerardo Ruiz Chavarria, Abraham Medina Ovando, Abel Lopez Villa, Leonardo Di G. Sigalotti, 2015-03-05 This book contains invited lectures and selected contributions presented at the Enzo Levi and XIX Annual Meeting of the Fluid Dynamic Division of the Mexican Physical Society in 2013 It is aimed at fourth year undergraduate and graduate students and scientists in the fields of physics engineering and chemistry who are interested in fluid dynamics from an experimental and theoretical point of view The invited lectures are introductory and avoid the use of complicated mathematics The fluid dynamics applications include multiphase flow convection diffusion heat transfer rheology granular material viscous flow porous media flow geophysics and astrophysics The material contained in the book includes recent advances in experimental and theoretical fluid dynamics and is suitable for both teaching and research **Fractured Vuggy Carbonate Reservoir Simulation**

Jun Yao, Zhao-Qin Huang, 2017-08-08 This book solves the open problems in fluid flow modeling through the fractured vuggy carbonate reservoirs Fractured vuggy carbonate reservoirs usually have complex pore structures which contain not only matrix and fractures but also the vugs and cavities Since the vugs and cavities are irregular in shape and vary in diameter from millimeters to meters modeling fluid flow through fractured vuggy porous media is still a challenge The existing modeling theory and methods are not suitable for such reservoir It starts from the concept of discrete fracture and fracture vug networks model and then develops the corresponding mathematical models and numerical methods including discrete fracture model discrete fracture vug model hybrid model and multiscale models Based on these discrete porous media models some equivalent medium models and methods are also discussed All the modeling and methods shared in this book offer the key recent solutions into this area **Advances in the Study of Fractured Reservoirs** G.H. Spence, J. Redfern, R. Aguilera, T.G. Bevan, J.W. Cosgrove, G.D. Couples, J.-M. Daniel, 2014-08-27 Naturally fractured reservoirs constitute a substantial percentage of remaining hydrocarbon resources they create exploration targets in otherwise impermeable rocks including under explored crystalline basement and they can be used as geological stores for anthropogenic carbon dioxide

Their complex behaviour during production has traditionally proved difficult to predict causing a large degree of uncertainty in reservoir development. The applied study of naturally fractured reservoirs seeks to constrain this uncertainty by developing new understanding and is necessarily a broad integrated interdisciplinary topic. This book addresses some of the challenges and advances in knowledge approaches, concepts and methods used to characterize the interplay of rock matrix and fracture networks relevant to fluid flow and hydrocarbon recovery. Topics include describing, characterizing and identifying controls on fracture networks from outcrops, cores, geophysical data, digital and numerical models, geomechanical influences on reservoir behaviour, numerical modelling and simulation of fluid flow and case studies of the exploration and development of carbonate, siliciclastic and metamorphic naturally fractured reservoirs.

**Petroleum Abstracts**, 1993      *Numerical Simulation of Multiphase Fluid Flow in Naturally Fractured Reservoirs* Kuriyit Nakornthap, 1982      Fluid Flow In Porous

Media: Fundamentals And Applications Liang Xue, Xiaozhe Guo, Hao Chen, 2020-09-24. Processes of flow and displacement of multiphase fluids through porous media occur in many subsurface systems and have found wide applications in many scientific, technical and engineering fields. This book focuses on the fundamental theory of fluid flow in porous media, covering fluid flow theory in classical and complex porous media such as fractured porous media and physicochemical fluid flow theory. Key concepts are introduced concisely and derivations of equations are presented logically. Solutions of some practical problems are given so that the reader can understand how to apply these abstract equations to real world situations. The content has been extended to cover fluid flow in unconventional reservoirs. This book is suitable for senior undergraduate and graduate students as a textbook in petroleum engineering, hydrogeology, groundwater hydrology, soil sciences and other related engineering fields.

Ushering in a Geothermal Millennium Geothermal Resources Council, Annual Meeting, 2000

Fracture and In-situ Stress Characterization of Hydrocarbon Reservoirs Geological Society of London, 2003      **SPE Reservoir Evaluation & Engineering**, 2009      *Multiphase Flow in Porous Media* Charles Marle, 1981      **Advanced**

**Building Materials** Guang Fan Li, Yong Huang, Chao He Chen, 2011-05-17. Selected peer reviewed papers from the 2011 International Conference on Civil Engineering, Architecture and Building Materials (CEABM 2011) 18-20 June 2011 Haikou, China      **Fractures in Geothermal Reservoirs** Geothermal Resources Council, 1982      Proceedings, 1987

Transactions American Institute of Mining, Metallurgical, and Petroleum Engineers, 1989. Some vols 1920-1949 contain collections of papers according to subject      **SPE Journal**, 2009      *Workshop Report*, 1997

## **Multiphase Fluid Flow In Porous And Fractured Reservoirs** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Multiphase Fluid Flow In Porous And Fractured Reservoirs**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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