# FUNDAMENTALS OF RESERVOIR FLUID FLOW

Flow in porous media is a very complex phenomenon and as such cannot be described as explicitly as flow through pipes or conduits. It is rather easy to measure the length and diameter of a pipe and compute its flow capacity as a function of pressure; in porous media, however, flow is different in that there are no clear-cut flow paths which lend themselves to measurement.

The analysis of fluid flow in porous media has evolved throughout the years along two fronts—the experimental and the analytical. Physicists, engineers, hydrologists, and the like have examined experimentally the behavior of various fluids as they flow through porous media ranging from sand packs to fused Pyrex glass. On the basis of their analyses, they have attempted to formulate laws and correlations that can then be utilized to make analytical predictions for similar systems.

The main objective of this chapter is to present the mathematical relationships that are designed to describe the flow behavior of the reservoir fluids. The mathematical forms of these relationships will vary depending upon the characteristics of the reservoir. The primary reservoir characteristics that must be considered include:

- Types of fluids in the reservoir
- Flow regimes
- Reservoir geometry
- · Number of flowing fluids in the reservoir

**Tarek Ahmed, Nathan Meehan** 

Reservoir Engineering Handbook Tarek Ahmed, 2010-01-12 Reorganized for easy use Reservoir Engineering Handbook Fourth Edition provides an up to date reference to the tools techniques and science for predicting oil reservoir performance even in the most difficult fields Topics covered in the handbook include Processes to enhance production Well modification to maximize oil and gas recovery Completion and evaluation of wells well testing and well surveys Reservoir Engineering Handbook Fourth Edition provides solid information and insight for engineers and students alike on maximizing production from a field in order to obtain the best possible economic return With this handbook professionals will find a valuable reference for understanding the key relationships among the different operating variables Examples contained in this reference demonstrate the performance of processes under forceful conditions through a wide variety of applications Fundamental for the advancement of reservoir engineering concepts Step by step field performance calculations Easy to understand analysis of oil recovery mechanisms Step by step analysis of oil recovery mechanisms New chapter on fractured Forthcoming Books Rose Arny, 1990 Advanced Reservoir Engineering Tarek H. Ahmed, 2005 Written by reservoirs noted experts in the field this text offers students and practitioners full descriptions with worked examples of all of the kinds of reservoir engineering topics typically encountered by engineers in their everyday activities **Reservoir Engineering** Handbook Tarek Ahmed, 2012 Reservoir Engineering Handbook Tarek H. Ahmed, 2001 This book wxplains the fundamentals of reservoir engineering and their practical application in conducting a comprehensive field study Two new chapters have been included in this second edition chapter 14 and 15 **Advanced Reservoir Engineering Tarek** Ahmed, Paul McKinney, 2011-03-15 Advanced Reservoir Engineering offers the practicing engineer and engineering student a full description with worked examples of all of the kinds of reservoir engineering topics that the engineer will use in day to day activities In an industry where there is often a lack of information this timely volume gives a comprehensive account of the physics of reservoir engineering a thorough knowledge of which is essential in the petroleum industry for the efficient recovery of hydrocarbons Chapter one deals exclusively with the theory and practice of transient flow analysis and offers a brief but thorough hands on guide to gas and oil well testing Chapter two documents water influx models and their practical applications in conducting comprehensive field studies widely used throughout the industry Later chapters include unconventional gas reservoirs and the classical adaptations of the material balance equation An essential tool for the petroleum and reservoir engineer offering information not available anywhere else Introduces the reader to cutting edge new developments in Type Curve Analysis unconventional gas reservoirs and gas hydrates Written by two of the industry's best known and respected reservoir engineers Reservoir Engineering Handbook, Third Edition Tarek H. Ahmed, 2005\* Equations of State and PVT Analysis Tarek Ahmed, 2016-03-02 Understanding the properties of a reservoir s fluids and

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