

# Fundamentals Of Numerical Reservoir Simulation

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Reservoir simulation tasks. •Gather and input the rock and fluids data (reservoir description) •Choose certain numerical features of the grid (number of cells, cells size, etc) •Setup the correct field wells controls (injection rates, bottom hole pressure constrains, etc). This drives the model.

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Reservoir simulation is an area of reservoir engineering in which computer models are used to predict the flow of fluids through porous media. Under the model in the broad scientific sense of the word, they understand a real or mentally created structure that reproduces or reflects the object being studied. The name of the model comes from the Latin word modulus, which means "measure, pattern". Modeling is one of the main methods of knowledge of nature and society. It is ...

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In some miscible applications, the “smearing” of the flood front, also called numerical dispersion, may be a problem. Reservoir simulation is used extensively to identify opportunities to increase oil production in heavy oil deposits. Oil recovery is improved by lowering the oil viscosity by injecting steam or hot water.

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@article{osti\_5031130, title = {Fundamentals of numerical reservoir simulation}, author = {Peaceman, D W}, abstractNote = {Computers are being widely used for numerical simulations of oil and gas reservoirs. This book is intended for the reservoir engineer. The first chapter reviews the basic reservoir mechanics and derives the differential equations that reservoir simulators are designed to solve.

## **Fundamentals of numerical reservoir simulation (Book ...**

Young L and Zarantonello S High performance vector processing in reservoir simulation Proceedings of the 1991 ACM/IEEE

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conference on Supercomputing, (304-315) McFarland J, Lasdon L and Loose V (1984) Development Planning and Management of Petroleum Reservoirs Using Tank Models and Nonlinear Programming, Operations Research, 32 :2 , (270-289), Online publication date: 1-Apr-1984 .

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