Gas Reservoir Engineering

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Gas reservoir engineering provides the undergraduate as well as the graduate student with an introduction to fundamental problem solving in gas reservoir engineering through practical equations and methods. Although much oilwell technology applies to gas wells, many differences exist. This book helps students understand and recognize these differences to enable appropriate handling of gas reservoir problems.
J. Hagoort. Gas reservoir engineering is the branch of reservoir engineering that deals exclusively with reservoirs of non-associated gas. The prime purpose of reservoir engineering is the formulation of development and production plans that will result in maximum recovery for a given set of economic, environmental and technical constraints. This is not a one-time activity but needs continual updating throughout the production life of a reservoir. Reservoir engineering is a branch of petroleum engineering that applies scientific principles to the fluid flow through porous medium during the development and production of oil and gas reservoirs so as to obtain a high economic recovery. The working tools of the reservoir engineer are subsurface geology, applied mathematics, and the basic laws of physics and chemistry governing the behavior of liquid and vapor phases of crude oil, natural gas, and water in reservoir rock. Of particular interest to
Reservoir engineering is the evaluation of hydrocarbon and geothermal deposits to estimate their size and production capacity. This information can determine how a deposit is used, and also appears in reports issued by energy companies to provide information about their activities. Degrees in geology, geophysics, petroleum engineering, or related subjects are usually necessary to work in this field, along with experience in the industry. Advanced college education may be required to work as a team leader or supervisor.