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2.7.1 Basics; 2.7.1.1 Hydrocarbons; 2.7.1.2 Inerts; 2.7.1.3 Types of Reservoir Fluid; 2.7.2 Relationship Between Gas and Oil Phases-Single-Component Systems; 2.7.3 Phase Equilibria in Multicomponent Systems; 2.7.3.1 A Different Representation-Two-Pseudocomponent Pressure Composition Plots; 2.7.4 Volume Changes With Pressure and Temperature (PVT Relationships)
2.7.5 Obtaining Representative Reservoir Fluid Samples
2.7.5.1 Surface Flow Testing; 2.7.5.2 Direct Reservoir Fluid Sampling-Repeat Formation Testing; 2.7.6 Laboratory Studies on Reservoir Fluids; 2.7.6.1 Constant Volume Depletion for Gas and Gas Condensate Systems; 2.7.6.2 Constant Composition Expansion; 2.7.6.3 Differential Depletion for Oil; 2.7.7 Use of Equations of State in Reservoir Engineering; 2.7.7.1 Real Gases; 2.7.8 Black Oil Model; 2.7.8.1 Formation Volume Factors; 2.7.8.1.1 Oil FVF; 2.7.8.1.2 Gas FVF; 2.7.8.2 Solution GOR
2.7.9 Excel Software for Producing Empirical Black Oil Curves
2.7.10 Compositional Flash Calculations; 2.7.10.1 Chemical Potentials; 2.7.10.2 Fugacities; 2.7.10.3 For a Real Gas; 2.7.10.4 Cubic Equation of State of Form; Solved to Give PVT Relationships; 2.7.10.5 Allowing Composition of Coexisting Phases to Be Determined; 2.8 QUESTIONS AND EXERCISES; 2.9 FURTHER READING; 2.10 SOFTWARE; 3 - Well-Test Analysis; 3.1 INTRODUCTION; 3.2 BASIC EQUATIONS; 3.3 LINE SOURCE-INFINITE RESERVOIR; 3.4 BOUNDED RESERVOIR WITH "NO FLOW" BOUNDARY; 3.5 CONSTANT PRESSURE BOUNDARY; 3.6 SKIN EFFECTS
3.7 WELLBORE STORAGE

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