



Working Guide to Vapor-Liquid Phase Equilibria Calculations

Tarek Ahmed

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Working Guide to Vapor-Liquid Phase Equilibria Calculations offers a practical guide for calculations of vapor-phase equilibria. The book begins by introducing basic concepts such as vapor pressure, vapor pressure charts, equilibrium ratios, and flash calculations. It then presents methods for predicting the equilibrium ratios of hydrocarbon mixtures: Wilson's correlation, Standing's correlation, convergence pressure method, and Whitson and Torp correlation.

The book describes techniques to determine equilibrium ratios of the plus fraction, including Campbell's method, Winn's method, and Katz's method. The remaining chapters cover the solution of phase equilibrium problems in reservoir and process engineering; developments in the field of empirical cubic equations of state (EOS) and their applications in petroleum engineering; and the splitting of the plus fraction for EOS calculations.

- Includes explanations of formulas
- Step by step calculations
- Provides examples and solutions

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