Phase Equilibrium Engineering: Chapter 4. Physical Properties and Thermodynamic Models (Supercritical Fluid Science and Technology)

Esteban Brignole, Selva Pereda

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In previous chapters, we have seen the fundamental criteria for phase equilibria and how the phenomenological phase behavior and separation technology of real mixtures are determined by their constituent molecular interactions. Our purpose in this chapter is to present the properties of fluids and the models for the prediction of thermodynamic properties and phase equilibria. These models are classified as predictive models using only pure component properties and semiempirical models based on a molecular thermodynamic approach. Finally, the chapter highlights the importance of the class of mixture and molecular interactions of its components in the selection of thermodynamic models for phase equilibrium calculations.

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