Phase Equilibrium Engineering: Chapter 2. Intermolecular Forces, Classes of Molecules, and Separation Processes (Supercritical Fluid Science and Technology)

Esteban Brignole, Selva Pereda

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The design of the phase scenario that meets the process needs defines a phase equilibrium engineering problem. The first step in the design of the phase scenario is to consider the mixture(s) to be handled in the process. What are the components, their chemical nature, composition, physical state, pressure, and/or temperature? This is a critical step and quite often one goes back to this step in the search of an answer to solve the phase design problem. The phase behavior of the mixture is closely determined by the molecular interactions of the components of the mixture. Therefore, an introduction to the different types of molecular interactions is provided in this chapter. Finally, a classification of molecules and families of separation problems is given, which shows the strong connection between the classes of molecules and the proper separation technologies.

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