



Phase Equilibrium Engineering: Chapter 7. Phase Equilibrium Engineering in Distillation (Supercritical Fluid Science and Technology)

Esteban Brignole, Selva Pereda

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This chapter starts with the analysis of the distillation path of binary mixtures on the general phase behavior P–T diagram of binary mixtures. The univariant lines of these diagrams limit the region of vapor–liquid equilibria where binary distillation can be applied. On this basis, the conditions under which distillation is possible for types I, II, IV, and V of binary mixtures are discussed. Furthermore, in this chapter, the principles of fractional distillation, as well as the computational procedures, are discussed. The thermodynamic modeling of a train of distillation columns to separate the components of an ethane-cracked gas mixture is used to develop a strategy for an equation of state parameter tuning. This strategy is based on the analysis of the distillation column phase equilibrium sensitivity and leads to a unique matrix of equation of state dominant binary parameters for the whole fractionation train. The chapter ends with a list of phase equilibrium engineering guidelines to make a realistic design/simulation of distillation columns.

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