



# Phase Equilibrium Engineering: Chapter 1. Phase Equilibrium and Process Development (Supercritical Fluid Science and Technology)

*Esteban Brignole, Selva Pereda*

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This volume on phase equilibrium engineering (PEE) aims to fill the gap between the books on reactors and separation process design and the textbooks on chemical engineering thermodynamics. The goal is to change the focus from the use of thermodynamic relationships to compute phase equilibria to the design and control of the phase conditions that a process needs. In this way, phase equilibrium thermodynamics is put to work. The main goal of PEE is the design of the system conditions to achieve the desired phase equilibrium scenario that the process at hand requires. In this chapter, the philosophy of phase equilibrium thermodynamic modeling is discussed in the context of process development and chemical plant operation. Typical phase scenarios that are encountered in separation, materials, and chemical process are presented as well as the problem of phase design and the PEE tools.

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