CH365 CHEMICAL ENGINEERING THERMODYNAMICS

Lesson 13: Cubic Equations of State

Read: Section 3.6, pp. 95-103

Problems: 3.44

Objectives:

1. Understand the general form of the cubic equation of state.

2. Understand how to assign parameters to the general cubic equation of state using Table 3.1.

3. Understand the theory of corresponding states and how this allows calculations of vapor and liquid volumes from cubic equations.

4. Understand the Pitzer correlations for the compressibility factor, second and third virial coefficients.

Notes: