CH365 CHEMICAL ENGINEERING THERMODYNAMICS

Lesson 27: Fundamental Property Relations

Read: Section 6.1 pp. 215-225

Problems: 6.1, 6.4

Objectives:

- 1. Define enthalpy, Helmholtz energy, and Gibbs energy.
- 2. Convert enthalpy, Helmholtz energy, and Gibbs energy into fundamental property relationships.
- 3. Derive the Maxwell equations.
- 4. Derive the property relations for enthalpy and entropy as functions of T and P.
- 5. Derive the property relations for internal energy and entropy as functions of T and V.
- 6. Define and derive the Gibbs energy generating function.

Notes: