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: