CH365 CHEMICAL ENGINEERING THERMODYNAMICS

Lesson 6: Enthalpy, Heat Capacity, and Open Systems 1

Read: Sections 2.7-2.8, pp. 39-46

Problems: 2.24, 2.40

Objectives:

1. Calculate enthalpy change when the amount of heat added to the system is known (see Example 2.6).

2. Calculate changes in internal energy, heat, and work in a cyclic process (Problem 2.6).

3. Calculate changes in state using heat capacity.

4. Perform calculations in both English and SI units.

Definitions:

Enthalpy, heat capacity, constant volume heat capacity, constant pressure heat capacity.

Cadet Notes: