

CH365 CHEMICAL ENGINEERING THERMODYNAMICS

Lesson 16: Sensible Heat Effects

Read: Section 4.1 pp. 137-145

Problems: 4.5, 4.9.

Objectives:

1. Understand the temperature dependence of heat capacity.
2. Understand how to compute heat capacities for mixtures.
3. Be able to integrate heat capacity polynomials to obtain ΔH .
4. Find heat capacity polynomials in CHEMCAD and Aspen+.
5. Build user-defined functions for heat capacity in Mathematica.

Notes: