

## CH365 CHEMICAL ENGINEERING THERMODYNAMICS

### **Lesson 7:** Enthalpy, Heat Capacity, and Open Systems 2

**Read:** Section 2.9, pp. 47-58

**Problems:** 2.28, 2.38

#### **Objectives:**

1. Write mass and energy balances for open systems.
2. Calculate flow rate in a conduit from velocity, cross-sectional area, and density.

#### **Definitions:**

Open system, mass flow rate, molar flow rate, volumetric flow rate, velocity, flow calorimeter.

#### **Cadet Notes:**