Chapter 2

2.1

a) Overall mass balance:

$$\frac{d(pV)}{dt} = w_1 + w_2 - w_3 \qquad (1)$$

Energy balance:

$$C\frac{d\left[\rho V(T_1-T_{ref})\right]}{dt} = w_i C(T_1-T_{ref}) + w_2 C(T_2-T_{ref})$$

$$-w_i C\left(T_1-T_{ref}\right)$$
(2)

Because p = constant and $V = \overline{V} = constant$, Eq. 1 becomes:

$$w_3 = w_1 + w_2 \tag{3}$$

From Eq. 2, substituting Eq. 3

$$\rho C \overline{V} \frac{d(T_3 - T_{ref})}{dt} = \rho C \overline{V} \frac{dT_3}{dt} = w_i C(T_i - T_{ref}) + w_2 C(T_3 - T_{ref}) \\ - (w_i + w_2) C(T_3 - T_{ref})$$
(4)

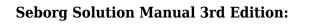
Constants C and T_{ref} can be cancelled:

$$\rho \overline{V} \frac{dT_1}{dt} = w_1 T_1 + w_2 T_2 - (w_1 + w_2) T_3$$
 (5)

The simplified model now consists only of Eq. 5.

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