

## Chapter 2

### 2.1

- a) Overall mass balance:

$$\frac{d(\rho V)}{dt} = w_1 + w_2 - w_3 \quad (1)$$

Energy balance:

$$C \frac{d[\rho V (T_3 - T_{ref})]}{dt} = w_1 C (T_1 - T_{ref}) + w_2 C (T_2 - T_{ref}) - w_3 C (T_3 - T_{ref}) \quad (2)$$

Because  $\rho = \text{constant}$  and  $V = \bar{V} = \text{constant}$ , Eq. 1 becomes:

$$w_3 = w_1 + w_2 \quad (3)$$

- b) From Eq. 2, substituting Eq. 3

$$\rho C \bar{V} \frac{d(T_3 - T_{ref})}{dt} = \rho C \bar{V} \frac{dT_3}{dt} = w_1 C (T_1 - T_{ref}) + w_2 C (T_2 - T_{ref}) - (w_1 + w_2) C (T_3 - T_{ref}) \quad (4)$$

Constants  $C$  and  $T_{ref}$  can be cancelled:

$$\rho \bar{V} \frac{dT_3}{dt} = w_1 T_1 + w_2 T_2 - (w_1 + w_2) T_3 \quad (5)$$

The simplified model now consists only of Eq. 5.

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