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The balance equation
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2. Energy Balance
3. Momentum Balance (Newton's Law)
Rate of Accumulation of fundamental quantity
Flow In
Flow Out
Rate of Production
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Solution: (a) For outer tank $WC(T_i - T_o) + hA(T_1 - T_2) - WC(T_2 - T_o) = \rho C V \frac{dT_2}{dt}$ (1) At steady state $WC(T_{is} - T_o) + hA(T_{1s} - T_{2s}) - WC(T_{2s} - T_o) = 0$ (2) (1) - (2) gives $WC(T_i' + hA(T_1' - T_2')) - WC(T_2') = \rho C V \frac{dT_2}{dt}$ Substituting numerical values $10 T_i' + 10(T_1' - T_2') - 10 T_2' = 50 \frac{dT_2}{dt}$ Taking L.T. $T_i(s) + T_1(s) - 2T_2(s) = 5 s \frac{dT_2(s)}{dt}$ Now $T_i(s) = 0$, since there is no change in temp of feed stream to outer tank.

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Mellichamp. Variables : w_1 , w_2 , T_1 , T_2 , T_3 . $NE = 1$ $NV = 5$. Thus, $NF = 5 - 1$

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Solutions
= 4. Because w_1 , w_2 , T_1 and T_2 are determined by upstream units, we assume they are known functions of time: $w_1 = w_1(t)$ $w_2 = w_2(t)$

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