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Solution:(a) For outer tank  $WC(T_i - T_o) + hA (T_1 - T_2) - WC(T_2 - T_o) = ?$   
 $C V \frac{dT_2}{dt}$ ----- (1) At steady state  $WC(T_{is} - T_o) + hA (T_{1s} - T_{2s}) - WC(T_{2s} - T_o) = 0$  ----- (2) (1) - (2) gives  $WC(T_i' + hA (T_1' - T_2')) - WC(T_2' = ?$   
 $C V \frac{dT_2}{dt}$  2 Substituting numerical values  $10 T_i' + 10 (T_1' - T_2') - 10 T_2' = 50 \frac{dT_2}{dt}$   
2 Taking L.T.  $T_i(s) + T_1(s) - 2T_2(s) = 5 s T_2(s)$  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,  $NF = 5 - 1 = 4$ . 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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