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Solution:(a) For outer tank  $WC(T_i - T_o) + hA (T_1 - T_2) - WC(T_2 - T_o) = C V_2 \frac{dT_2}{dt}$  ---- (1) At steady state  $WC(T_{i,s} - T_o) + hA (T_{1,s} - T_{2,s}) - WC(T_{2,s} - T_o) = 0$  ---- (2) (1) - (2) gives  $WC(T_i' - T_{i,s}) + hA (T_1' - T_2') - WC(T_2' - T_{2,s}) = C V_2 \frac{dT_2'}{dt}$  Substituting numerical values  $10 T_i' + 10 (T_1' - T_2') - 10 T_2' = 50 \frac{dT_2'}{dt}$  Taking L.T.  $T_i(s) + T_1(s) - 2T_2(s) = 5 s T_2(s)$  Now  $T_i(s) = 0$ , since there is no change in temp of feed stream to outer tank.

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Duncan A. Mellichamp. Variables :  $w_1$  ,  $w_2$  ,  $T_1$  ,  $T_2$  ,  $T_3$ .  $N_E = 1$   $N_V = 5$ . Thus,  $N_F = 5 - 1 = 4$ . 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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