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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 $WC(T_i' - T_o) + hA(T_1' - T_2') - WC(T_2' - T_o) = \rho C V \frac{dT_2'}{dt}$

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$V \frac{dT}{dt} = 2 \text{Substituting numerical values}$
 $10 T_1' + 10 (T_1' - T_2') - 10 T_2' = 50 \frac{dT}{dt}$
 2Taking L.T.
 $T_1(s) + T_1(s) - 2T_2(s) = 5 s T_2(s)$
Now $T_1(s) = 0$, since there is no change in temp of feed stream to outer tank.

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