

Process Dynamics And Control Solutions

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Solution:(a) For outer tank $WC(T_i - T_o) + hA (T_1 - T_2) - WC(T_2 - T_o) = ? C V_2 dt dT_2$ ---- (1) At steady state $WC(T_{is} - T_o) + hA (T_1s - T_2s) - WC(T_2s - T_o) = 0$ ---- (2) (1) – (2) gives $WC(T_i' + hA (T_1' - T_2')) - WC(T_2' = ? C V_2 dt dT_2$ Substituting numerical values $10 T_i' + 10 (T_1' - T_2') - 10 T_2' = 50 dt dT_2$ 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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