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Process Dynamics and Control

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Solution:(a) For outer tankWC(Ti – To) + hA (T1 – T2)- WC(T2 – To) = ? C V2dtdT2----- (1)At steady stateWC(Tis – To) + hA (T1s – T2s)- WC(T2s – To) = 0 ----- (2)(1) – (2) givesWCTi' + hA (T1' – T2')- WCT2' = ? C V2dtdT 2Substituting numerical values10 Ti' + 10 (T1' – T2') – 10 T2' = 50dtdT 2Taking L.T.Ti(s) + T1(s) – 2T2(s) = 5 s T2(s)Now Ti(s) = 0, since there is no change in temp of feed stream to outer tank.

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