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6-1 fStep response

0.5 0.45 0.4

Amplitude 0.35 0.3

0.25 0.2 0.15 0.1

0.05 0 0 20 40 60

80 100 120 140

Time Figure S6.1c.

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three important process variables in a process control system. Feedback control system measures the controlled variable and compares the measured value with the desired value and then adjusts the manipulated variables for the

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balance equation

1. Mass Balance
2. Energy Balance
3. Momentum

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fundamental

quantity Flow In

Flow Out Rate of

Production = - +

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$$WC(T_2 - T_0) + hA(T_1 - T_2) - \rho C V \frac{dT_2}{dt} \quad (1)$$

At steady state

$$WC(T_{1s} - T_{2s}) - WC(T_{2s} - T_0) = 0 \quad (2)$$

(1) - (2) gives

$$WC(T_1' - T_2') - WC(T_2' - T_0) = \rho C V \frac{dT_2}{dt}$$

Substituting numerical values

$$10(T_1' - T_2') - 10(T_2' - 10) = 50 \frac{dT_2}{dt}$$

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2 Taking L.T. $T_1(s) + T_2(s) - 2T_2(s) = 5 s$
 $T_2(s)$ Now $T_1(s) = 0$,
since there is no
change in temp of
feed stream to
outer tank.

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Variables : w_1 , w_2 , T_1 , T_2 , T_3 .

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$$NE = 1 \quad NV = 5.$$

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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