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1. At the Ideal Gas Company, you are in charge of operating a reactant mixing system. Your boss wants a dynamic model of the system to be used for process control and process optimization. The constant volume mixing tank has two feed streams with constant volumetric flow rates of F_1 and F_2 .

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Process temperature response for a step input b) The overshoot can be obtained from Eq. 5-52 or Fig. 5.11. From Figure 5.11 we see that $OS \approx 0.05$ for $\zeta=0.7$. This means that maximum temperature is $T_{max} \approx 70^\circ + (18)(1.05) = 70 + 18.9 = 88.9^\circ$ From Fig S5.15 we obtain a more accurate value.

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