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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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Process control technology is the tool that enables manufacturers to keep their operations running within specified limits and to set more precise limits to maximize profitability, ensure quality and safety.

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The square-root relationship for flow through the control valve is $\sqrt{q} = \frac{1}{2} \sqrt{\frac{P}{\rho g h}} + a c v g P g h q C P$ (2) From the ideal gas law, $\frac{P}{\rho} = \frac{R T}{M}$ (3) where T is the absolute temperature of the gas. Equation 1 gives the unsteady-state model upon substitution of q from Eq. 2 and

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process control. 11.1 Introduction Some reasons for considering a system's dynamics and obtaining dynamic models are: 1. To describe the time behavior of a batch process. 2. To describe the transient response of a continuous process (e.g., dynamic change from one steady state to another). 3.

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