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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.

Instrumentation & Control - Process Control and

The square-root relationship for flow through the control valve is $\sqrt{q} = \frac{1}{2} \sqrt{\frac{P}{\rho g}} \sqrt{\frac{C}{P}} \sqrt{\frac{h}{\rho g}} \sqrt{\frac{M}{RT}} \sqrt{\frac{g}{g}} \sqrt{\frac{h}{\rho g}} = (2)$ From the ideal gas law, $(\rho / M) A H h m M RT P g g \sqrt{h} = (3)$ 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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UNDERSTANDING DYNAMIC PROCESS BEHAVIOR FOR CONTROLLER DESIGN

Spring 2006 Process Dynamics, Operations, and Control 10.450 Lesson 1: Processes and Systems where the parameter t_{fill} is the time required for the level to reach h_r at flow F_{max} , starting from an empty tank. $r_{fill} = \frac{V}{F_{max}}$ (1.5-3)

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