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Process Dynamics & Control By Dale E. Seborg, Thomas F. Edgar, and Duncan A. Mellichamp PART ONE: INTRODUCTION TO PROCESS CONTROL 1. Introduction to Process Control 1.1 Representative Process Control Problems 1.2 Illustrative Example 1.3 Classification of Process Control Strategies 1.4 A More Complicated Example--A Distillation Column

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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 5.15 we obtain a more accurate value.

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The square-root relationship for flow through the control valve is $1/2 \rho v = \rho g P / \rho g h q C P$ (2) From the ideal gas law, $(P / \rho) = R T$ (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 output for a ramp input 7-14 We know the response will come from product of $G(s)$ and $X_{ramp} = B/s^2$ KB Then $Y(s) = 2 \cdot 2 \cdot 2 \cdot s \cdot (s + 2) \cdot (s + 1)$ From the ramp response of a first-order system we know that the response will asymptotically approach a straight line with slope = KB.

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What is Process Control? " Process control is the act of controlling a final control element to change the manipulated variable to maintain the process variable at a desired Set Point. A corollary to the definition of process control is a controllable process must behave in a predictable manner.

Fundamentals of Instrumentation v.1.2

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Instrumentation & Control - Process Control and

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Process dynamics - NTNU

Process Dynamics A process is a dynamical system, whose behavior changes over time. Control systems are needed to handle such changes in the process. Thus, it is important to understand the process dynamics when a control system is designed.