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Therefore the process transfer function G cannot exhibit oscillations when the input is a step function. 5.7 Assume that at steady state the temperature indicated by the sensor T_m is equal to the actual temperature at the measurement point T .

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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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31 Introduction to Process Control and Instrumentation. 32 Behaviour of Controlled Processes. 33 Design of Control Schemes. 34 Control of Distillation Columns. 35 Control of a Fluid Catalytic Cracker. Appendix A. Modelling an Extraction Process. A1: Problem Analysis. A2: Dynamic Process Model Development. A3 Dynamic Process Model Analysis.

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where A is the heat transfer area (in ft^2) between the process liquid and the coolant. Eqs.1 and 2 comprise the dynamic model for the system. 2.9 Additional assumptions: i. The density ρ and the specific heat C of the process liquid are constant. ii. The temperature of steam T_s is uniform over the entire heat transfer area

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