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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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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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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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