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Process Dynamics & Control

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 11 Representative Process Control Problems 12 Illustrative Example 13 Classification of Process Control Strategies 14 A More Complicated Example--A Distillation Column

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2-4 24 Assume constant liquid density, ρ The mass balance for the tank is $(\frac{d}{dt}) (V) \rho = \rho_i q_i - \rho q$ Because ρ , A , and $m g$ are constant, this equation becomes $q \frac{dh}{dt} A = i - (1)$ The square-root relationship for flow through the control valve is

SM Ch 4 8-3-10

43 The transfer function for the pressure transmitter is given by, $(\frac{1}{10})$ and $(\frac{15}{10})$ for the step change from 35 to 50psi Substituting into (1) and rearranging

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