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	 2.6.2 Apache HTTP Server; 2.6.3 M/M/1/K Comparisons *2.7 Parameter Estimation Using MATLAB2.8 Exercises; 3 Z-Transforms and Transfer Functions; 3.1 Z-Transform Basics; 3.1.1 Z-Transform Definition; 3.1.2 Z-Transforms of Common Signals; 3.1.3 Properties of Z-Transforms; 3.1.4 Inverse Z-Transforms; 3.1.5 Using Z-Transforms to Solve Difference Equations; 3.2 Characteristics Inferred from Z- Transforms; 3.2.1 Review of Complex Variables; 3.2.2 Poles and Zeros of a Z-Transform; 3.2.3 Steady-State Analysis; 3.2.4 Time Domain versus Z-Domain; 3.3 Transfer Functions; 3.3.1 Stability; 3.3.2 Steady- State Gain; 3.3.3 System Order 3.3.4 Dominant Poles and Model Simplification3.3.5 Simulating Transfer Functions; 3.4 Summary; 3.5 Extended Examples; 3.5.1 M/M/1/K from System Identification; 3.5.2 IBM Lotus Domino Server: Sensor Delay; 3.5.3 Apache HTTP Server: Combining Control Inputs; *3. 6 Z-Transforms and MATLAB; 3.7 Exercises; 4 System Modeling with
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Sommario/riassunto	This is the first practical treatment of the design and application of feedback control of computing systems. MATLAB files for the solution of problems and case studies accompany the text throughout. The book discusses information technology examples, such as maximizing the efficiency of Lotus Notes. This book results from the authors' research into the use of control theory to model and control computing systems. This has important implications to the way engineers and researchers approach different resource management problems. This guide is well suited for professionals and researchers i