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Digital Control System Analysis and Design

for analyzing a digital control system. As shown in Figure L.I, the z-transform enables the engineer

to combine a continuous process and digital controller into one transfer function model. As with continuous systems, we can use the transfer function model to determine important properties of the system, such as its stability,

Analysis of Digital Control Systems

This class will provide a comprehensive treatment of the analysis and design of discrete-time control systems. The course will build upon the student's knowledge of classical control theory and extend that knowledge to the discrete-time domain. This course is highly relevant to aspiring control systems and robotics engineers since most control system designs are implemented in

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First, the magnetic suspension system is stabilized using a digital proportional-derivative controller. Subsequently, the digital model is identified using recursive algorithms. Finally, a digital mixed linear quadratic regulator (LQR)/ H^∞ control is adopted to stabilize the magnetic suspension system robustly.

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The chapter on control design in the frequency domain (Chapter 8) is, in my opinion, far the worse because it is, in fact, a chapter on CONTINUOUS control design (use of bilinear transformation from z to w and design in w).

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