



Control System with MATLAB. Linear Analysis and Examples (Paperback)

By PEREZ M

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Control System Toolbox software lets you analyze the dynamics of linear systems. You can visualize system behavior in time domain and frequency domain. You can extract system characteristics such as rise time, overshoot, and settling time. You can also analyze system stability. Use these tools to analyze the behavior of plant models or validate the performance of a tuned control system. Use the Linear System Analyzer app to examine the time-domain and frequency-domain behavior of SISO and MIMO systems. Time-domain and frequency-domain analysis commands let you compute and visualize SISO and MIMO system responses such as Bode plots, Nichols plots, step responses, and impulse responses. You can also extract system characteristics such as rise time and settling time, overshoot, and stability margins. Most linear analysis commands can either return response data or generate response plots. Passive control is often part of the safety requirements in applications such as process control, tele-operation, human-machine interfaces, and system networks. Passivity is a particular case of the more general notion of sector bounds, the applications of which include absolute stability of feedback systems with static nonlinearities....



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