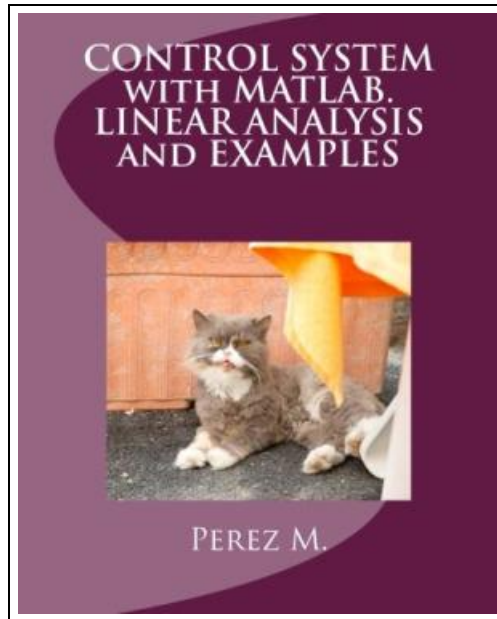


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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Control System Toolbox software lets you analyze the dynamics of linear systems. You can visualize system behavior 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, teleoperation, 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. Stability Analysis examines the pole and zero locations of dynamic systems graphically and numerically and examines the effect of stability margins on closed-loop response characteristics of a control system. Sensitivity Analysis examines the Robustness of control systems. Control System Toolbox includes tools for analyzing dynamic systems for both passivity and arbitrary sector bounds. You can customize response plots using interactive plot tools and the plot property editor. Use the functions in this category to generate response plots that are customizable at the command line. This book develops the following topics: -Time Domain Analysis -Plotting System Responses -Time-Domain Responses -Time-Domain Response...



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