Quantitative Feedback Design of Linear and Nonlinear Control Systems (The Springer International Series in Engineering and Computer Science)

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Quantitative Feedback Design of Linear and Nonlinear Control Systems is a self-contained book dealing with the theory and practice of Quantitative Feedback Theory (QFT). The author presents feedback synthesis techniques for single-input single-output, multi-input multi-output linear time-invariant and nonlinear plants based on the QFT method. Included are design details and graphs which do not appear in the literature, which will enable engineers and researchers to understand QFT in greater depth. Engineers will be able to apply QFT and the design techniques to many applications, such as flight and chemical plant control, robotics, space, vehicle and military industries, and numerous other uses. All of the examples were implemented using Matlab® Version 5.3; the script file can be found at the author's Web site.

QFT results in efficient designs because it synthesizes a controller for the exact amount of plant uncertainty, disturbances and required specifications. *Quantitative Feedback Design of Linear and Nonlinear Control Systems* is a pioneering work that illuminates QFT, making the theory - and practice - come alive.

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