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The first edition of Quantitative Feedback Theory gained enormous popularity by successfully bridging the gap between theory and real-world engineering practice. Avoiding mathematical theorems, lemmas, proofs, and correlaries, it boiled down to the essential elements of quantitative feedback theory (QFT) necessary to readily analyze, develop, and implement robust control systems. Thoroughly updated and expanded, Quantitative Feedback Theory: Fundamentals and Applications, Second Edition continues to provide a platform for intelligent decision making and design based on knowledge of the characteristics and operating scenario of the plant. Beginning with the fundamentals, the authors build a background in analog and discrete-time multiple-input-single-output (MISO) and multiple-input-multiple-output (MIMO) feedback control systems along with the fundamentals of the QFT technique. The remainder of the book links these concepts to practical applications. Among the many enhancements to this edition are a new section on large wind turbine control system, four new chapters, and five new appendices. The new chapters cover non-diagonal compensator design for MIMO systems, QFT design involving Smith predictors for time delay systems with uncertainty, weighting matrices and control authority, and QFT design techniques applied to real-world industrial systems. Quantitative Feedback Theory: Fundamentals and Applications, Second Edition includes new and revised examples and end-of-chapter problems and offers a companion CD that supplies MIMO QFT computer-aided design (CAD) software. It is the perfect guide to effectively and intuitively implementing QFT control.

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An investigation of the interface between the technical literature's theoretical results and the problems that practising engineers face - and that engineering students will face - every day on the job. It demonstrates the extensive applications of quantitative feedback theory and seeks to bridge the gap between theory and practice. The book contains a user's manual and QFT design program on CD-ROM, to provide faster, easier access to design applications.

The Final Proceedings for 1999 Quantitative Feedback Theory (QFT) Symposium, 27 August 1999 - 28 August 1999. This is an interdisciplinary conference. Topics include: Quantitative Feedback Theory and Robust Frequency Domain Methods.

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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This book thoroughly covers the fundamentals of the QFT robust control, as well as practical control solutions, for unstable, time-delay, non-minimum phase or distributed parameter systems, plants with large model uncertainty, high-performance specifications, nonlinear components, multi-input multi-output characteristics or asymmetric topologies. The reader will discover practical applications through a collection of fifty successful, real world case studies and projects, in which the author has been involved during the last twenty-five years, including commercial wind turbines, wastewater treatment plants, power systems, satellites with flexible appendages, spacecraft, large radio telescopes, and industrial manufacturing systems. Furthermore, the book presents problems and projects with the popular QFT Control Toolbox (QFTCT) for MATLAB, which was developed by the author.

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