Optimal and Robust Control: Advanced Topics with MATLAB®

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While there are many books on advanced control for specialists, there are few that present these topics for nonspecialists. Assuming only a basic knowledge of automatic control and signals and systems, **Optimal and Robust Control: Advanced Topics with MATLAB®** offers a straightforward, self-contained handbook of advanced topics and tools in automatic control.

Techniques for Controlling System Performance in the Presence of Uncertainty

The book deals with advanced automatic control techniques, paying particular attention to robustness—the ability to guarantee stability in the presence of uncertainty. It explains advanced techniques for handling uncertainty and optimizing the control loop. It also details analytical strategies for obtaining reduced order models. The authors then propose using the Linear Matrix Inequalities (LMI) technique as a unifying tool to solve many types of advanced control problems.

Topics covered include:

- LQR and H-infinity approaches
- Kalman and singular value decomposition
- Open-loop balancing and reduced order models
- Closed-loop balancing
- Passive systems and bounded-real systems
- Criteria for stability control

This easy-to-read text presents the essential theoretical background and provides numerous examples and MATLAB exercises to help the reader efficiently acquire new skills. Written for electrical, electronic, computer science, space, and automation engineers interested in automatic control, this book can also be used for self-study or for a one-semester course in robust control.

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