Robust Control Systems: Theory And Case Studies

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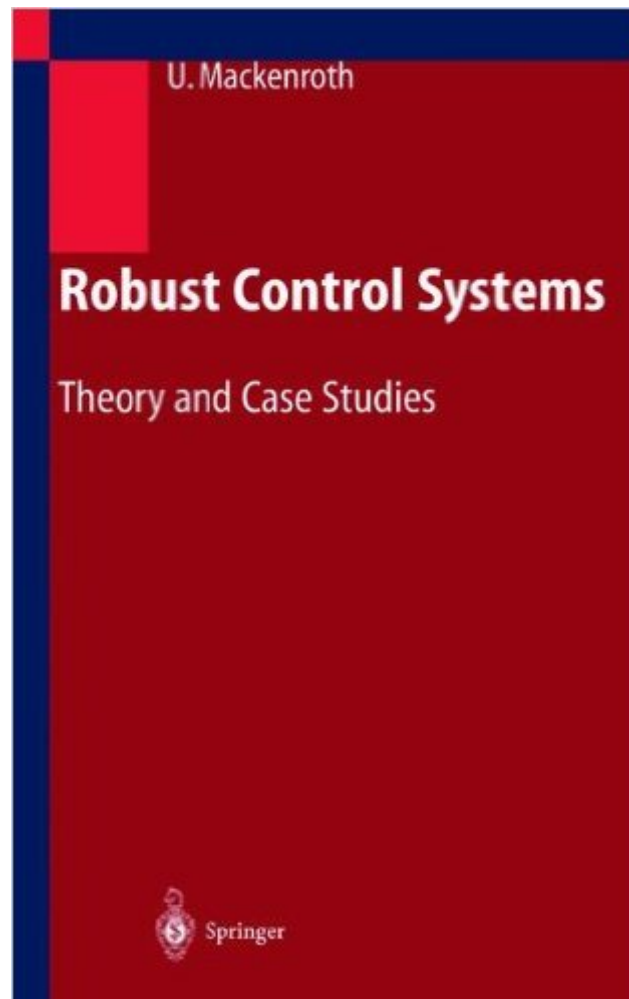
Robust Control Systems

Theory and Case Studies

Springer

Synopsis

  Self-contained introduction to control theory that emphasizes on the most modern designs for high performance and robustness.   It assumes no previous coursework and offers three chapters of key topics summarizing classical control.   To provide readers with a deeper understanding of robust control theory than would be otherwise possible, the text incorporates mathematical derivations and proofs.   Includes many elementary examples and advanced case studies using MATLAB Toolboxes.

Book Information

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Customer Reviews

I like this book because it is quite comprehensive. The first few chapters review basics such as classical control, norms, Lyapunov functions, etc., then the author devotes subsequent chapters to H2 (with LQG control as a special case), and H infinity techniques. The main reason I purchased the book is that I wanted a reference that had the traditional H2 and H infinity approaches presented, as well as the Linear Matrix Inequality (LMI) approaches. There are also some nice design examples.

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