

Zhou, Kemin; Doyle, John C.; Glover, Keith
Robust and optimal control. (English) Zbl 0999.49500
Upper Saddle River, NJ: Prentice Hall. xx, 596 p. (1996).

Publisher's description:

For graduate-level courses and for professional reference dealing with robust linear control, multivariable design and H_∞ Control. Assumes prior knowledge of feedback and control systems and linear systems theory. Also appropriate for practicing engineers familiar with modern control techniques. Class-tested at major institutions around the world and regarded as an "instant classic" by reviewers, this work offers the most complete coverage of robust and H_∞ control available. The clarity of the overall methodology: how one sets a problem up, introduces uncertainty models, weights, performance norms, etc. set this book apart from others in the field. Offers detailed treatment of topics not found elsewhere including — Riccati equations, ...m theory, H_∞ loopshaping, controller reduction, how to formulate problems in a LFT form. Key results are given immediately for quick access in the beginning of the book. Overall the book serves as a tremendous self-contained reference by having collected and developed all the important proofs and key results available. Problems sets are available on Internet.

MSC:

- 49-01 Introductory exposition (textbooks, tutorial papers, etc.) pertaining to calculus of variations and optimal control
- 93Dxx Stability of control systems

Cited in **2** Reviews
Cited in **680** Documents