

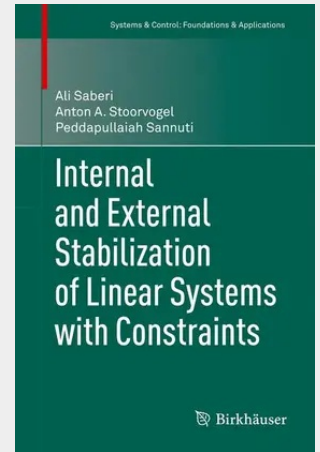
Internal and External Stabilization of Linear Systems with Constraints

Most nonlinear systems can be modeled as linear systems with constraints on their inputs and selected outputs. Unifying two decades of research, this book is the first to establish a comprehensive foundation for a systematic analysis and design of such systems. The authors address the following issues in the work:

- * Internal or Lyapunov stability, external L_p stability, and simultaneous internal and external stability
- * Control system feedback design laws for different types of stability
- * New notions of external stability
- * Additional constraints on controller architecture under decentralized internal and external stabilization
- * Satisfactory performance, which also guarantees stability

Internal and External Stabilization of Linear Systems with Constraints is an excellent reference for practicing engineers, graduate students, and researchers in control systems theory and design. The book may also serve as an advanced graduate text for a course or a seminar in nonlinear control systems theory and design in applied mathematics or engineering departments. Minimal prerequisites include a first graduate course in state-space methods as well as a first course in control systems design.

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