

Robust stability and convexity - an introduction

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Robustness (computer science)

One method to deal with uncertainty in the past is stochastic control.

Robust Control Theory

However, chapter 11 covers linear feedback theory in some detail. The contribution of this paper lies on different levels. Parameter Estimation - Parameter estimation techniques establish boundaries in the frequency domain that cannot be crossed to maintain stability.

Convex conditions for robust stability analysis and stabilization of linear aperiodic impulsive and sampled

Sometimes this dynamic is unknown and sometimes it is deliberately ignored in order to simplify the model. In the present paper, new discontinuous Lyapunov functionals are introduced for sampled-data control in the presence of a constant input delay. Gains in power or energy in the system indicate operation of the system near a pole in the transfer function.

Robust Stability and Convexity

To do so, the new code must know how and when to accommodate the failure point.

Robust Stability and Convexity: An Introduction by Jacob Kogan, Paperback

In sampled control systems digital systems a key factor in the determination of the stability of the system is the sample rate. Of the many books on robust control this appears to be the most readable. However, this seems to be a common theme when dealing with safety critical embedded systems.

Improved criteria on robust stability and H_∞ performance for linear systems with interval time

This paper studies the problem of guaranteed performance consensus in second-order multi-agent systems. This serves as a good introduction to conventional control. Under this assumption and some additional conditions, an asymptotic representation of the fast state is obtained in terms of

the slow state and the known input.

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