论文与报告

含时变不确定性线性系统的鲁棒跟踪控制

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摘要

关键词　不确定性　鲁棒控制　跟踪　控制系统设计

分类号

Robust Tracking Control for Linear Systems Containing Time-Varying Uncertainties

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Abstract
This paper is concerned with the problem of designing robust tracking controllers for the linear systems with time-varying uncertainties. Using Riccati equations, we derive a linear control law which produces robust tracking of dynamic inputs. In the matched system, the tracking error bound can be made arbitrarily small, and then a satisfactory practical tracking is achieved. I the mismatched system, with some other conditions holding, the tracking error can be made bounded.

Key words　Uncertainty　robust control　tracking　control system desing

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