

短文

同时镇定一族带有不确定参数的多输入非线性系统的多输入非线性系统

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摘要

Simultaneous stabilization for a collection of multi-input nonlinear systems with uncertain parameters is dealt with in this paper. A systematic method for obtaining a control Lyapunov function (CLF) is presented by solving the Lyapunov equation. A sufficient condition that a quadratic CLF is a common CLF for these systems is acquired. A continuous state feedback is designed to simultaneously stabilize these systems. Finally, the effectiveness of the proposed scheme is illustrated by a simulation example.

关键词 [Nonlinear systems](#)
[simultaneous stabilization](#) [control](#)
[Lyapunov functions \(CLF\)](#) [state](#)
[feedback](#)

分类号

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Stabilization for a
Collection of Multi-input
Nonlinear Systems with
Uncertain Parameter

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