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非线性不确定系统的鲁棒镇定

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ROBUST STABILIZATION OF NONLINEAR UNCERTAIN SYSTEMS

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摘要

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**摘要** 讨论仿射非线性不确定系统的鲁棒镇定问题。给出了其鲁棒镇定的充分必要条件, 以及一类非线性不确定系统, 其鲁棒镇定界不依赖于其李雅普诺夫函数界的估计而仅依赖于其系统本身的结构性质与设计者的要求

**关键词:** 非线性系统 李亚普诺夫函数 鲁棒性

**Abstract:** The robust stabilization of nonlinear uncertain systems is discussed. The necessary and sufficient condition of its robust stabilization is given, and a class of uncertain systems is obtained, in which the bound of the robust stabilization is independent of the bound of its Liapunov function. Finally, an example is given.

**Keywords:** nonlinear systems Liapunov functions robustness

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