

Nonlinear Stabilization by adding Integrators

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Abstract: In this paper, we study the global stabilization, by means of smooth state feedback, of systems (S) obtained by adding an integrator to a general nonlinear system (Σ). We show how to compute the stabilizing feedback for (S) when a strict Lyapunov function for (Σ) is difficult to find.

Keywords:

AMS Subject Classification: