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**Stabilization of linear systems in the presence of output measurement saturation.** (English)

Zbl 0875.93476

Syst. Control Lett. 29, No. 1, 27-30 (1996).

Summary: This note considers siso nonlinear systems, which have a linear controllable and observable part followed by a measurement saturation nonlinearity. A controller is presented, which feeds back only the saturating output measurements and nevertheless globally asymptotically stabilizes the system. The equilibrium is actually reached in finite time, i.e. the controller is dead beat.

**MSC:**

93D15 Stabilization of systems by feedback

Cited in **16** Documents

**Keywords:**

Nonlinear systems; Nonlinear control; Saturation

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**References:**

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