

عنوان مقاله:

Robust Optimal Control of Servomotor Positioning System

محل انتشار:

سومین کنفرانس بین المللی مهندسی برق (سال: 1397)

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خلاصه مقاله:

This paper presents robust optimal control of Servomotor Positioning System in presence of uncertainties. The uncertainties include the external disturbance and parametric uncertainty and bounded unknown nonlinear term. In this paper, Discrete Linear Quadratic (DLQ) control has been efficiently applied to certain systems as an optimal control. There would seem to be some difficulties to apply discrete linear quadratic control to uncertain Servomotor Positioning System. In order to apply the discrete linear quadratic to uncertain Servomotor Positioning system with lumped uncertainty that it is compensated by robust time delay. The stability analysis and simulation verify effectiveness of the proposed control approach.

کلمات کلیدی:

Servomotor Positioning System , uncertainties, disturbance, parametric uncertainty

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