عنوان مقاله:

Control of chaotic satellite by using indirect model reference fuzzy controller

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خلاصه مقاله:

We here proposed the indirect model reference fuzzy control scheme to control the chaotic attitude of a satellite. This paper adopted Lorenz-type attitude motion .This non- linear chaotic system is modeled as a Takagi–Sugeno (TS) fuzzy system. It was shown that using stable adaption law and model reference method, it is possible to control of chaotic behavior of satellite. Our simulation results have demonstrate that the proposed method can satisfy the control object and enhanced stability as well as ease of tuning.

کلمات کلیدی:

Chaos. Fuzzy control . Takagi–Sugeno fuzzy model. Nonlinear system. Attitude motion. Satellite; Lorenz equations

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