Sliding Mode Simulation and Robustness Controller

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Abstract:

This paper presents the robust of Sliding Mode Controller according to parameters change and worst signal noise. Mathematical procedure for calculating the values of the gains of Sliding Mode Controller (SMC) and equation of Sliding Mode (slopes) parameters are determined. The proposed control scheme is derived, simulated and results obtained SMC by using MATLAB Version 7.10.0.499 (R2010a) Simulink, package and reveal the superiority of the (SMC) over the conventional controller.