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A SYNTHESIS METHOD FOR TWO-ORDER UNCERTAIN SYSTEMS: AUTO-STABLE REGION APPROACH

In this paper, the variable structure control method is improved. Based on the existence and the reaching conditions for the auto-stable region of two-order systems, a new synthesis method, auto-stable region approach is presented to construct a global stabilizing feedback law by using a positive definite function and a properly selected saturated function. This new approach is robust with respect to the bounded model uncertainties and is convenient for both analysis and engineering implementation.

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