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ROBUST REGULATOR FOR NONAFFINE NON-STATIONARY PLANTS

This paper presents the development of the robust law in conditions of priori uncertainty. The robust law is used for a single-channel nonaffine non-stationary plant that can be affected by parametrical and external hindrances. The solution of synthesis problems leans on application of hyperstability criterion, L -dissipativity conditions, as well as usage of a filter-corrector and explicit standard with two outputs in control system.

Keywords: Nonaffine nonlinear systems, the filter-corrector, robust algorithm, reference model, L -dissipativity, hyperstability.

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