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Eremin E.L., Godyaev A.I., Shelenok E.A. (cidshell@mail.ru)

Amur state university

DECENTRALIZED NONLINEAR-PERIODIC CONTROL SYSTEM FOR ONE CLASS OF NON-AFFINE MULTIVARIABLE PLANTS

The article deals with the synthesis problem of control system regulator for non-affine multivariable dynamic plant. The plant operates in periodic modes and also in the presence of external disturbances and parametric uncertainty. Hyperstability criterion, the fast-acting dynamic corrector and L -dissipativity conditions are applied to solve the problem.

Keywords: nonlinear periodic control law, prior uncertainty, filter-corrector, L -dissipativity, hyperstability criterion, non-affine multivariable plant.

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