

STABILIZATION OF THE SYSTEM BY STATIC OUTPUT FEEDBACK

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ABSTRACT. Algorithms of calculation of optimum value of the matrix of static output feedback are offered. These algorithms allow to solve the problems for the objects with continuous and discrete time. Generalization of these algorithms on the problems of simultaneous stabilization of several objects by common static regulator is given. For realization of the offered algorithms the standard MATLAB package procedures may be used. Efficiency of the offered algorithms is shown on the examples, borrowed from the works of other authors.

Key words: static output feedback, simultaneous stabilization, gradient of objective function.