

DESIGN OF INFINITE-DIMENSIONAL MODAL CONTROLLERS FOR DISTRIBUTED PLANTS

Dylevskii A. V.

A method is proposed to construct an infinite-dimensional modal controller for a distributed plant. Transfer functions of the plant, the controller and the closed-loop system are considered in the class of meromorphic functions. The design procedure expresses the controller transfer function directly in terms of the closed-loop transfer function. The method is reduced to search of series of interpolation. An example is considered.