Optoelectronics, Instrumentation and Data Processing 2012 vol.48 N5, pages 462-468

Analytical synthesis of physically implementable controllers for multivariable objects using the embedding technique

Asanov A., Demyanov D.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

It is shown that the problem of synthesis of control systems (with a reference model) for a multivariable dynamic object can be solved exactly using the embedding technique. The synthesis algorithm presented provides stability and physical implementation of the solution obtained. © 2012 Allerton Press, Inc.

http://dx.doi.org/10.3103/S8756699012050056

Keywords

adaptive control, embedding, multivariable dynamic object, synthesis algorithm