Simultaneous Output-Feedback Stabilization For Continuous Systems

Al-Sunni, FM; Lewis, FL

King Fahd University of Petroleum & Minerals

http://www.kfupm.edu.sa

Summary

A design technique for the stabilization of M linear systems by one constant output-feedback controller is developed. The design equations are functions of the state and the control weighting matrices. An example of the stabilization of an aircraft at different operating points is given.

References:

1. ALSUNNI FM, 1993, J GUID CONTROL DYNAM, V16, P602
2. GHOSH BK, 1983, IEEE T AUTOMAT CONTR, V28, P735
3. LOOZE DP, 1983, AUTOMATICA, V19, P299
4. MOORE JB, 1987, IEEE T AUTOMAT CONTR, V32, P512
5. PADUANO JD, 1989, J GUID CONTROL DYNAM, V12, P297
6. PETERSEN IR, 1987, AUTOMATICA, V23, P33
7. SCHMITENDORF WE, 1989, IEEE T AUTOMAT CONTR, V34, P1001
8. ZAMES G, 1983, IEEE T AUTOMAT CONTR, V28, P585

For pre-prints please write to: abstracts@kfupm.edu.sa