

Generalized Bezoutians And Invariant Subspaces

Bakri, T.M.;Dept. of Electr. Eng., King Fahd Univ. of Pet.Miner., Dhahran;
**Automatic Control, IEEE Transactions on;Publication Date: Sep 1988;Vol:
33,Issue: 9**

King Fahd University of Petroleum & Minerals

<http://www.kfupm.edu.sa>

Summary

Given a controllable and observable linear time-invariant system for which the transfer matrix has a right and left coprime matrix fraction description, the generalized Bezoutian of the matrix polynomials of the matrix fraction description is shown to be related to the right (A,B)-invariant vectors and the left (C,A)-invariant vectors

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