

Calculation of decoupling zeroes in the multiconnected dynamic system

Asanov A., Dem'Yanov D.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

A recursive method for calculating decoupling zeroes in the linear multiconnected dynamic system based on the application of matrix canonization techniques is proposed. Its essence is that the problem dimension is successively decreased and reduced to finding eigenvalues of some matrix. The results obtained can be used to check controllability and observability as well as to calculate uncontrollable and unobservable modes of the dynamic system. © Allerton Press, Inc., 2010.

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Keywords

Calculation algorithm, Decoupling zero, Matrix canonization method, Multiconnected dynamic system, System zero