Numerical Operations with Polynomial Matrices: Application to Multi-Variable Dynamic Compensator Design (Lecture Notes in Control and Information Sciences)

Peter Stefanidis, Andrzej P. Paplinski, Michael J. Gibbard

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The purpose of this monograph is to describe a class of com- putational methods, based on polynomial matrices, for the design of dynamic compensators for linear multi-variable control systems. The design of the compensator, which may be either analogue or digital, is based on pole assignment. A matrix fraction description, which employs polynomial matri- ces, is used to represent the system. The design comptuta- tion, however, employs matrices of real numbers rather than polynomial matrices. This simplifies the computational pro- cedures which can thus be implementedin commercially-avai- lable software packages. Both transient and steady-state performace specifications are included in the design proce- dure which is illustrated by four detailed examples. The monograph should be of interest to research workers and engineers in the field fo multi-variable control. For the former it provides some new computational tools for the ap- plication of algebraic methods, for both groups it introdu- ces some new ideas for a more-direct approach to compensator design.

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