论文

一类系统构造问题的多输入-多输出基本方程与多目标优化

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摘要　　Renato Pennachi 讨论了以 S(M,N,C,λ_0)表示的参数系统抽象化定义,给出了参数系统的矩阵表示.Franz R.Pichler 总结 Salovara,Blomberg,Messarovic,Ma-cko,Windeknecht,Klir,Kalman,Zadeh 等人的工作, 介绍了一般系统理论中若干以集合论与代数体系为基础的较有成效的动态系统建造与实现理论.G.M.Ostrovsky 等人在大规模复杂系统的优化问题中,运用了带有0—1变量的系数,研究了具有复杂平行序列的结构问题.

关键词
分类号

MULTI-INPUT,MULTI-OUTPUT BASIC SYSTEM EQUATIONS OF A CATEGORY OF SYSTEM CONSTRUCTON PROBLEMS AND THEIR MULTI-OBJECTIVE OPTIMIZATION

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Abstract　Based on the characteristics of a variety of design and programming problems,we putforward a construction selection problem of multi-input,multi-output systems and discuss itsmulti-objective optimization.The model consists of not only ordinary constrainits,but also partial differential equationsand their boundary conditions, 0—1 variables and logical relations concerning scheme selectionof system kerned and feedback kernel.The objective functions can be ordinary functions orof integral form.Algorithms and probable developments of the problem,are also discussed.

Key words

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