短文

2-D常系数线性离散系统可分性判定

杜春玲,邹云,杨成梧

南京理工大学动力工程学院,南京

摘要
针对二维常系数线性离散系统一般状态空间模型(2-DGM)的可分性判定问题进行探讨, 给出了系统可分的若干判定法则, 这些法则有助于进一步完善2-D系统现有的理论体系.
关键词　　2-D系统　可分性　线性离散系统

分类号

The Separatability of 2-D Linear Shift-Invariant Discrete Systems

Du Chunling,Zou Yun,Yang Chengwu

School of Power Engineering&Dynamics,Nanjing University of Science&Technology,Nanjing

Abstract
In this paper, the problem of testing the separability of 2-D linear shift-invariant discrete systems is discussed. On the basis of the existing results obtained by the authors, several new numerical and algebraic criteria are proposed in this paper. Here, the numerical criterion is both sufficient and necessary, while the algebraic criterion is only necessary. These results are beneficial for improving the theory of 2-D systems, and the improvements are, as far as we know, best in this field.

Key words　2-D systems　linear discrete systems　separability

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本文作者相关文章
- 杜春玲
- 邹云
- 杨成梧

通讯作者

作者个人主页　杜春玲;邹云;杨成梧