短文

一种多变量系统鲁棒设计方法

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摘要
本文介绍一种多变量系统鲁棒设计方法. 该方法是基于"鲁棒对角优势保证鲁棒稳定"这个一般性结论, 其核心是多模型加权准优势化算法, 该算法设计的鲁棒预补偿器, 使系统为鲁棒对角优势. 用该设计方法对一大型工业加热炉进行鲁棒系统设计, 结果令人满意.

关键词　　鲁棒控制器　鲁棒对角优势　工业加热炉

分类号

A Robust Design Method for Multivariable System

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Abstract
In this paper, a robust design method for multivariable system is presented. It is based on the general conclusion that robust diagonal dominance of a system guarantees its robust stability proved by the writer. Its kernel is a pseudo domination algorithm for weighted multimodel, which was proposed by the author. Robust pre compensators designed by the algorithm makes system robust diagonally dominant The method of this paper is applied to the design a large heatedfurnace, and the results are satisfactory.

Key words　　Robust controller　robust diagonal dominance　industrial heatedfurnace

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