

短文

同阶线性系统在Kharitonov空间的同时镇定

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摘要

运用Kharitonov定理给出一个期望的闭环特征区间多项式,然后将同阶线性系统的同时镇定问题化成一组线性不等式的求解,并给出求解该不等式组的线性规划法,讨论了三种解的意义和性质.算例表明该方法的有效性.

关键词 [同时镇定](#) [线性规划](#) [不等式](#) [区间多项式](#)

分类号

Simultaneous Stabilization in Kharitonov Space for Linear Systems With Same Orders

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Abstract

According to Kharitonov theorem, an expected characteristic polynomial of the close-loop systems is given and the simultaneous stabilization problem of linear systems with same order is transformed into solving problem of a set of inequalities. And then a linear programming method for the inequalities is studied and third kinds of solutions of the problem and their properties are discussed. Examples demonstrate the effectiveness of the stabilization method.

Key words [Simultaneous stabilization](#) [linear programming](#) [inequalities](#) [interval polynomial](#)

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