短文

时变线性系统最优控制的Walsh级数分析法

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摘要
本文应用Walsh级数把最优控制问题转化成了一般代数极值问题,算法简洁明了,适合计算机求解,并解决了以前用Walsh级数分析时一直难以处理的末端条件问题[1],同时给出了计算实例,结果令人满意.

关键词 最优控制 Walsh级数

分类号

Analysis and Optimal Control of Time-Varying Linear Systems Via Walsh Series

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Abstract
By the expension of Walsh series, a new analysis and optimal control of time-varying linear systems is presented. This method changes the problem of optimal control into the limitation of algebrical equations. The procedure is very simple and clear, and treats the terminal conditions well, which is difficult in old algorithms. An example is illustrated, the results are satisfactory.

Key words Optimal control walsh series

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