

短文

线性定常系统镇定问题的输出反馈解

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摘要

研究了通过Riccati方程中矩阵D的选择,以实现由输出反馈 $u=-Ly$ 来镇定系统的目的,关于上述问题OFSLQ问题有解D,以使相应的Riccati方程存在正定解P,满足 $\Sigma(A-BB'P)C-$,且给出对某个L,有 $B'P=LC$ 的充要条件.

关键词 [镇定](#) [输出反馈](#)

分类号

Output Feedback Solution for the Problem of Stabilization of Linear Time-Invariant System

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Abstract

This paper is concerned with the problem of choosing matrix D in the Riccati equation so that the system can be stabilized by the output feedback $u = -Ly$. A necessary and sufficient condition for this question is obtained, namely, OFSLQ has a solution D such that ARE has the positive definite solution P satisfying $\Sigma(A-BB'P)C-$, and for some L, $B'P=LC$.

Key words [Stabilization](#) [output feedback](#)

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