

短文

奇异系统的输出稳定化通过一般状态反馈的可解性

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收稿日期 1993-4-8 修回日期 网络版发布日期 接受日期

摘要

讨论了奇异系统的输出稳定化问题, 得到了在初始值为容许且不保证闭环正则的情形下, 通过一般状态反馈求解此问题的充要条件及计算步骤.

关键词 [奇异系统](#) [输出稳定化](#) [一般状态反馈](#) [Drazin逆](#) [广义不变子空间](#)

分类号

On the Solvability of the Output Stabilization Problem of Singular Systems Via General State Feedback

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Abstract

This paper is devoted to the study of the solvability of the output stabilization problem of singular systems via general state feedback. When the initial values of the singular system are admissible, a sufficient and necessary condition for the solvability of this problem, with no guarantee of the regularity of the closed-loop system, has been proposed. The algorithm for this problem has also been developed.

Key words [singular system](#) [the output stabilization](#) [state feedback](#) [the Drazin inverse](#) [the general invariant subspace](#)

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