短文

对称系统可逆性的简化条件

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摘要
给出对称系统可逆性的一个充要条件. 用这个条件检验对称系统的可逆性, 可不必计算包含在输出核中的最大能控性子分布, 而只需计算较为简单的最大对称性子分布.

关键词　　非线性系统　对称性　可逆性

分类号

A Simplified Condition for the Invertibility of Symmetric Systems

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Abstract
A sufficient and necessary condition for the invertibility of symmetric systems is presented in this paper. In order to check the invertibility of symmetric systems by this condition, instead of calculating the largest controllability subdistribution included in the kernel of the outputs, what we need to do is just to find the largest symmetry subdistribution included in the kernel of the outputs.

Key words　　Nonlinear systems　symmetries　invertibility

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