

论文

## LOCAL MAXIMUM PRINCIPLE FOR SINGULAR DISCRETE-TIME LINEAR SYSTEMS

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**摘要** In this paper a local maximum principle for the singular discrete-time linear system  $Mx(k)=\varphi x(k-1)+Bu(k-1)$  is investigated. By using this local maximum principle we can discuss the linear-quadratic optimal regulator problem and the minimum energy problem for singular discrete-time linear systems.

**关键词** [Singular linear systems, local maximum pr](#)

分类号

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**Key words** [Singular linear systems](#) [local maximum principle](#) [optimal control](#)

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