论文与报告

离散事件系统广义分式方法

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摘要

Generalized-Fraction Approach for Discrete-Event Systems

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Abstract
Concerning a class of discrete-event systems in Z-domain, rational expressions based on minimax algebra are introduced as a simple way for formulating transfer functions, which are infinite formal series by definition. A rational expression is transformed into sum of generalized fractions in design and analysis of a system. Reduction of a generalized fraction is discussed and its standard form given. Spectrum characteristics of a rational transfer function is studied with its connection to periodic response of the system. Applications such as minimal realization and optimal control are illustrated with an example.

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