短文

一种新的间接自适应前馈控制算法及其应用

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摘要
本文提出的单变量随机间接自适应控制算法适于控制大滞后的系统. 它不仅能消除可测干扰的影响, 而且可以应用到多变量系统实现自适应解耦控制. 该算法即使用于非最小相位系统也具有全局收敛特性. 本文还介绍了该算法在多变量电加热系统中的应用.
关键词　间接自适应控制　前馈控制　全局收敛性
分类号

A New Indirect Adaptive Feedforward Control Algorithm and its Applications

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Abstract
The SISO indirect stochastic adaptive control algorithm presented in this paper is suitable to control systems with large delay. It not only can cancel the effect of measurable disturbances but also can be applied to MIMO systems to realize adaptive decoupling control. This algorithm also has global convergence properties even for nonminimum phase systems. One of the applications of such an adaptive algorithm to a multivariable electric-heated system is also described.
Key words　Indirect adaptive control　feedforward control　global convergence

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