

论文与报告

造纸机不同时滞多变量自校正控制器

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摘要

本文针对造纸机的纸张定量及水分,研制了具有不同时滞的多变量自校正控制器,增加了积分器和前馈补偿,用增广最小二乘法估计全部参数,实际运行获得满意的控制效果;还介绍了微机控制系统的构成及自校正控制系统的调试经验.

关键词 [不同时滞](#), [多变量自校正控制器](#).

分类号

A Multivariable Self-Tuning Controller for Paper Machine with Unequal Time Lag

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Abstract

In order to control the basis weight and moisture in a paper-making process, a new multivariable self-tuning controller with unequal time lag is presented in this paper. Integrators and feedforward compensators are added to the self-tuning controller, and all parameters are estimated by the Extended Least Square method. Based upon the satisfactory control results in a paper mill, some practical problems on the design of a microcomputer control system and the adjustment of the self-tuning controller are discussed.

Key words [Unequal time lag](#), [multivariable self-tuning controller](#).

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