

论文与报告

基于对象特征模型描述的智能控制

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摘要

目前出现的一些智能控制,大多数要靠现场试凑确定控制器结构和参数,缺乏事先按要求进行控制器设计的完整思想.为此,介绍一种新方法--基于对象特征模型描述的智能控制.该方法的基本思想是根据对象的特征模型描述和控制要求,设计智能控制器.它设计简单,使用方便,一般不需人们现场试凑调整.论文阐述了本方法产生的背景、基本原理和组成,智能控制器的设计以及多个实际工程的应用情况.

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分类号

Intelligent Control Based on Description of Plant Characteristic Model

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Abstract

Most of the current intelligent control methods are dependent on trial and error methods in worksite to determine the construction and parameters of the controller, without an integrated idea of controller design in prior. In this paper, a new method "intelligent control method based on description of plant characteristic model" is presented. The main idea of this method is to design the intelligent controller on the basis of the description of plant characteristic model and control requirements. This method is simple and feasible, and does not need trial-and-error. The paper first introduces the background of the method, then gives the intelligent controller design procedure and the theory proofs, and finally, some applications are demonstrated there.

Key words [Characteristic model](#) [golden section adaptive control law](#) [logical integral control law](#) [logical differential control law](#) [intelligent control](#)

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