

论文与报告

## 基于双重准则的二自由度预测控制--连续情况

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摘要

对二自由度连续预测控制系统进行了讨论.在保留连续预测控制基本特点的条件下,取包含连续预测控制指标项、灵敏度及补灵敏度的综合指标函数,通过广义谱分解及构造丢番图方程,求得使闭环系统内稳的解.最后举例说明该方法的有效性.

关键词 [连续预测控制](#) [广义谱分解](#) [双重准则](#)

分类号

## Dual Criterion Based Two-Degree-of-freedom Predictive Control--Continuous-Time Case

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Abstract

In this paper, the two-degree-of-freedom continuous-time predictive control is derived. A new cost function, including similar index function used in continuous-time predictive control, sensitivity function and complementary sensitivity function, is proposed. By factorizing general power spectrums and constructing appropriate Diophantine equations, the internal stability of closed-loop system is guaranteed. Finally an example shows the effectiveness of the method proposed here.

Key words [Continuous-time predictive control](#) [generalized spectral factorization](#) [dual criterion](#)

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