论文与报告

状态反馈预估控制

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摘要

关键词　　<u>状态反馈</u>　<u>状态空间模型</u>　<u>稳定性</u>　<u>预估控制</u>　<u>干扰抑制</u>
分类号

State Variable Feedback Predictive Control

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Abstract
In this paper, an algorithm of state variable feedback predictive control is given, it makes the structure of the system different from the IMC framework, this algorithm may be used to stabilize an unstable controlled process, unknown disturbance rejection is also improved. The properties of the predicive control system was analyzed, some necessary and sufficient conditions of stability are presented. All of these are demonstrated by simulation results and application to a commercial Fluidized Catalytic Cracking Unit.

Key words　　<u>State space model</u>　<u>predictive control</u>　<u>state variable feedback</u>　<u>stability</u>

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