

Model Reference Robust Tuning Of Pid Controllers Advances In Industrial Control

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to provide a coherent way of dealing with the tuning of PID controllers. The particular method at the core of the book is the so-called model-reference robust tuning (MoReRT), developed by the authors. MoReRT constitutes a novel and powerful way of thinking of a robust design and taking into account the usual design trade-offs encountered

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The aim of this paper is to present a robust tuning method for two-degree-of-freedom (2DoF) proportional integral (PI) controllers. This is based on the use of a model reference optimization procedure with servo and regulatory target closed-loop transfer functions for first- and second-order plus dead-time (FOPDT, SOPDT) controlled process models.

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Abstract. Over the years, the design of controllers with PID control algorithms has been faced with different approaches. As shown in [], controller tuning rules may be classified using different criteria: based on the controlled process information used (model order and structure, critical information), on the control algorithm to tune (P, PD, PI, PID, one or two-degree-of freedom), and on ...

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The robustness of the control system is analyzed. Comparative examples show the effectiveness of the proposed tuning method. The exact achievement of the control system robustness target for all the integrated controlled processes models considered is the distinctive characteristic of the proposed model reference robust tuning method.

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