

Building a fuzzy PID controller for a thermal furnace system.

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Abstract: This topic focuses on building an efficient automatic control system for a thermal furnace system through the design method of a fuzzy PID controller. The goal is to address the issues of flexibility and accuracy of the working process in changing environments. The research method combines theory and experimentation to implement the application on a specific thermal furnace system. Expected results from this topic include an advanced control solution that enhances the operational performance and energy efficiency of the thermal furnace, making a significant contribution to the field of industrial automation.

Keywords: Fuzzy PID controller, Thermal furnace system, Industrial automation