

Control and speed stabilization of AC motors using PID

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Abstract: In the context of increasingly developing automation technology, controlling and stabilizing the speed of AC motors plays an important role in many industries. This topic aims to research the PID control method to optimize the control process for speed and accuracy. Through experiments on a motor model, the topic applies PID theory to controlling the speed of AC motors. The expected research results will contribute significantly to the field of automation, enhancing the operational performance of power systems.

Keywords: AC motor, PID, Automatic control, Automation, Electrical engineering