

Control and speed stabilization of DC motors

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Abstract: This study focuses on controlling and maintaining precise speed for DC motors, meeting the increasing demands for performance in industries. The objective is to develop a control algorithm based on modeling the motor's dynamics. The research method includes theoretical analysis and practical experimentation to build a robust speed stabilization system. The expected result is to provide an advanced technical solution for improving the operational performance of electric motors, making a significant contribution to the field of automatic control.

Keywords: DC motor, control algorithm, stabilization system