

Control and speed stabilization of a DC motor using PID algorithm

Phung Trong Tinh

Abstract: The research context raises the issue of maintaining stable speed in power systems based on practical applications. The objective of the study is to develop and implement an effective PID control algorithm for a DC motor, thereby ensuring high accuracy and rapid response to changes. The research method combines theory with experimentation to evaluate system performance. The significance of the study lies in providing a flexible solution for motor control problems, while contributing to the development of modern automation technology.

Keywords: DC motor, PID algorithm, automatic control, speed stabilization, experiment