

Simulation design of T - Đ drive system for DC motor speed control using PID controller

Luong Dinh Tai

Abstract: This topic aims to propose a design and simulation solution for a thyristor-drive (T-D) transmission system for a DC motor, using a PID controller. Through theoretical analysis of the T-D transmission system, the topic will develop a mathematical model to simulate the operation process and speed control of the motor. The expected research results will have high application value in industrial control systems, contributing to improving the operational performance of electric motors.

Keywords: DC motor, PID controller, T-D drive simulation