

Building a lighting control system for a classroom using the PID algorithm.

Dao Van Hai

Abstract: In the context of education increasingly focusing on an effective and comfortable learning environment, controlling brightness in classrooms becomes important. This topic aims to address this issue by building an automatic lighting control system based on the PID algorithm. The research process includes analyzing PID theory, implementing an experimental system, and verifying its effectiveness in a classroom environment. The expected result is a solution that optimizes brightness, enhances the learning experience for students, and saves energy.

Keywords: light control, PID, classroom, automatic system, lighting management