Abstract Details

Title: PID Controller for Electrical Actuators

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Abstract: This paper concentrate on how to apply PID controller with different options to control the DC and stepper motor of the robot actuator, and MATLAB program is used for calculation and simulation PID controllers are widely used in a industrial plants because of their simplicity and robustness. The difference selections were applied and the result where analyzed to choose performance which was PID controller. The required criteria were fulfilled regarding the some important characteristic such as settling time, rise time and over shoot.

Keywords: PID, Settling Time, Rise Time, Bode Diagram.