

Abstract Details

Title: CNC Machine DC Servo Motor Control

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Abstract: This paper concentrates on computer numerical control (CNC) as one of the modern control system which has a great benefits and Reduced the problems and errors of the traditional machines that depend on operators the main problems of traditional machines are waste of time and effort beside that CNC machines have the capability of producing the complicate pieces in a mass production form in a very limited time as any other machines the CNC machine faces some problem such as technical errors due to high temperature the actuator deviation and finally the error produced by the motor used as motion source one of the CNC error is tracking error from the servo motor using PID controller for position and speed control minimizes this error hence improving the motor performance and increased the quality of the product as desire by the designers.

Keywords: Computer Numerical Control (CNC), PID Controller.