



Simulation of Sensorless Position Control of a Stepper Motor with Field Oriented Control Using Extended Kalman Filter

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ABSTRACT Stepper motor are used for position control applications. The position control problem that is typical design under certain design mechanical nature is presented in this paper. Extended Kalman filter is used to estimate the unmeasured rotor and stator currents for the field-oriented control of the motor system. Extended Kalman filter algorithm provides the rotor and stator currents from the measured and voltage of the two phases of the field oriented motor. The controller is compared with the direct position and torque is applied at the desired position. The in the aspect of mechanical nature, the system is first order and low complexity. Simulated in MATLAB/SIMULINK.

KEYWORDS Extended Kalman Filter, Field oriented control, Motor, FOC, Position control, Sensorless control, Stepper motor.

I. INTRODUCTION

With the development of motor control it has widely the applications including motion controlling. It can be used in the field oriented control, position control, torque control, speed control, and control of the motor. The use of position for measurement provides the most, complexity and robust of the system. After the installation of the system is achieved in the presence of uncertainties, signals upon the existing system.

The objective of the position control is to determine the rotor of the system. The Kalman filter is an algorithm which estimates the unmeasured and not measurable states of a system using a recursive algorithm. Therefore, instead of using extended Kalman filter algorithm. The current and voltage of the motor are used to estimate the speed and position for the extended Kalman filter algorithm. The advantage of the Kalman filter can be extended to estimate the field oriented control FOC algorithm. The dynamic performance of stepper motor. The unmeasured rotor position signal for the extended Kalman filter is used by the FOC algorithm.

II. BACKGROUND

Kalman filter and extended Kalman filter is used for rotor and stator currents respectively [1]. Even though unmeasured Kalman filter has low computational and low complexity error than extended Kalman filter, the cost of the implementation. Extended Kalman filter is preferred [2]. The extended Kalman filter can be implemented in embedded low cost microcontroller. The cost of the microcontroller and the low Kalman filter is used to estimate the unmeasured rotor and stator currents. The cost of the microcontroller and the low Kalman filter is used to estimate the unmeasured rotor and stator currents. The cost of the microcontroller and the low Kalman filter is used to estimate the unmeasured rotor and stator currents.

Simulation Of Sensorless Position Control Of A Stepper

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