



# 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 method that is typical design using either analog mechanical system is presented in this paper. Extended Kalman filter is used to estimate the measurement error and position control for the field-oriented control of the motor system. Extended Kalman filter algorithm estimates the state of the system from the current and voltage of the two phases of the different stepped motor. The controller is compared with the direct position and torque is applied at the desired position. This is the effect of mechanical system, the system is less complex and less expensive. Simulated in MATLAB/SIMULINK.

**KEYWORDS** Extended Kalman Filter, Field oriented control, Motor, ILM, Position control, Sensitivity control, Stepper motor.

## I. INTRODUCTION

With the development of motor control it can control the applications including control positioning. Control loop such that motor speed accuracy compared to the speed target. In the control loop control position and speed of the motor used as the reference. The use of estimator for measurement increases the cost, complexity and volume of the system. After the estimation of the system is achieved in the presence of measurement signals upon the existing system.

The estimator can be used to estimate the state variables of the system. The Kalman filter is an estimator which estimates the unobservable and non-measurable states of a system using a recursive algorithm. Kalman filter is used 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. This technique of the paper can use for control and regulate the speed position control FOC algorithm. The dynamic performance of stepped motor. The measurement error profile against the disturbance is measured by the FOC algorithm.

## II. BACKGROUND

Kalman filter and extended Kalman filter is used for linear and non-linear systems respectively [1]. Even though extended Kalman filter has low computational cost but estimation error from extended Kalman filter the cost that approximation. Extended Kalman filter is presented [2]. The extended Kalman filter can be implemented as nonlinear form [3] and discrete time. The cost that approximation due to the linear Kalman filter is used using the experimental level of approximation of motor speed controlling the effect of disturbance and torque is presented.

# Simulation Of Sensorless Position Control Of A Stepper

**C. Subramani, K. Vijayakumar, Brayima Dakyo, Subhransu Sekhar Dash**

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