

# Flux Sliding Mode Observer Design For Sensorless Control

Vector control (motor) Kalman filter Robust control Root locus Perturbation theory Signal-flow graph Small-signal model Sliding mode control State observer State space representation Vector control, also called field-oriented control (FOC), is a variable-frequency drive (VFD) control method in which the stator currents of a three-phase AC motor are identified as two orthogonal components that can be visualized with a vector. The pulse-width modulation of the variable-frequency drive defines the transistor switching according to the stator voltage references that are the output of the PI current controllers. Typically proportional-integral (PI) controllers are used to keep the measured current components at their reference values. One component defines the magnetic flux of the motor, the other the torque. The control system of the drive calculates the corresponding current component references from the flux and torque references given by the drive's speed control 9d5a3b1a54

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