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Design of efficient sliding mode controller for robot ...

The observer is insensitive to the variation of rotor resistance and perturbation when the states arrive at the sliding mode. Derivatives of rotor flux are obtained and designed as the state of MRAS, thus eliminating the integration.

Second-Order Sliding-Mode Observer With Online Parameter ...

Abstract In this article, a sliding mode control scheme with mismatched disturbance observer to achieve chaos control in power system is presented. A novel design method of mismatched disturbance o...

Sliding mode control with mismatched disturbance observer ...

• Brief overview of the observer idea • The induction motor model • Examples of flux and rotor speed observers - Observer architecture of Deridyok, Guven, Rehman, Inanc and Xu (2002) - Sliding mode observer of Utkin, Guldner and Shi (1999) • Our observer - Analysis - Simulation and experimental results • Concluding remarks 2

Rotor Flux and Speed Observers for Induction Motors

mode observer. The objective of SM-DTC design is to make the modulus of the rotor flux vector \( f \) and torque track to their reference value and \( \tau \) respectively. Figure 1. Proposed Sliding Mode Direct Torque Control (SM-DTC) for Sensorless IM drives scheme. A. Design of the Sliding Mode Torque and Rotor Flux Controller

Sliding Mode Observer-based MRAS for Sliding Mode DTC of ...

This work investigates the real-time estimation of the state-of-charge (SoC) of Lithium-ion (Li-ion) cells for reliable, safe and efficient utilization. A novel attractive ellipsoid based sliding-mode observer (AESMO) algorithm is designed to estimate the SoC in real-time. The algorithm utilizes standard equivalent circuit model of a Li-ion cell and provides reliable and efficient SoC estimate ...

Attractive Ellipsoid Sliding Mode Observer Design for ...

The Lyapunov sliding-mode observer (LSMO) feedback designs are performed for the nonlinear AMB dynamics due to control voltage saturation. The nonlinear observers are designed to estimate the magnetic flux and rotor mass velocity. The observer designs are incorporated in equivalence implementation of the nonlinear state-feedback controller.

Lyapunov Sliding-Mode Observers With Application for ...

The sliding mode observers [6-8] are proposed to estimate the position and speed of a permanent magnet synchronous motor (PMSM) by the estimated back-ems. The proposed observers are derived from traditional current model and most employed the discontinuous switching function in sliding mode control.

An Improved Flux Observer for Sensorless Permanent Magnet ...

Among different observation methods the sliding mode observer is a promising approach. This paper attempts to provide a status review and synopsis of the main approaches used in the sliding mode observer design for electric machines. Both induction machine and permanent magnet synchronous machine are covered in this paper.

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