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A Sensorless Speed Estimation For

A comparison of sensorless speed estimation methods for ...
A Comparison of Sensorless Speed Estimation Methods for Induction Motor Control Marc Bodson and John Chiasson Abstract–Many different techniques have been proposed to estimate the speed of an induction motor without a shaft sensor Three representative approaches are considered in the paper The methods are compared in terms of their
Speed Sensorless State Estimation for Induction Motors: A ...
Speed sensorless state estimation for induction motors is a challenging problem since the motor dynamics is multivariable and nonlinear, and the motor parameters are often not exactly known Through the years, numerous estimation schemes have been studied for …
Speed Sensorless State Estimation for Induction Motors: A ...
the motor speed and position are not measured, the con-vergence rate of the state estimation is the key limitation to the motor's tracking bandwidth This fact motivates the development of new state estimation solutions for induction motor systems Speed sensorless state estimation for induction motors is a
Sensorless Speed Estimation of PMSM near Zero Speed Using ...
Sensorless Speed Estimation of PMSM near Zero Speed Using Online Short Time Fourier Transform Ridges G El-Murr, DGiaouris, and JW Finch Abstract— There are many sensorless schemes that have been proposed to estimate the rotor speed and position However high frequency signal injection methods are able to detect the rotor
Speed Estimation Techniques for Sensorless Vector ...
SPEED ESTIMATION TECHNIQUES FOR SENSORLESS VECTOR CONTROLLED INDUCTION MOTOR DRIVE ERTEK, Talip Murat M Sc Department

of Electrical and Electronics Engineering Supervisor: Prof Dr Aydın Ersak December 2005, 132 pages This work focuses on speed estimation techniques for sensorless closed-loop speed

An approximate high gain observer for speed-sensorless ...

speed-sensorless estimation of induction motors Abstract—Rotor speed estimation for induction motors is a key problem in speed-sensorless motor drives This paper performs nonlinear high gain observer design based on the full-order model of the induction motor Such an effort appears non-

MRAS Based Estimation of Speed in Sensorless PMSM Drive

MRAS Based Estimation of Speed in Sensorless PMSM Drive Ambarisha Mishra1, Vasundhara Mahajan, Pramod Agarwal, Member IEEE, and SP Srivastava 1 Research Scholar, Electrical engineering Department IIT Roorkee, Roorkee, India Email: ambrishee@gmailcom Abstract— To increase the mechanical robustness of drive system and to make the drive cheaper elimination of the position sensor

Speed Sensorless Rotor Flux Estimation in Vector ...

Abstract: - This paper presents a speed sensorless rotor flux estimation algorithm in a vector controlled induction motor drive The proposed method is based on observing a newly defined state which replaces the unknown terms containing rotor flux and speed on right hand side of …

Vector Controlled Sensorless Estimation and Control of ...

Vector Controlled Sensorless Estimation and Control of Speed of Induction Motors Gayatri Gite Electrical Engineering Department SSSIST Sehore Bhopal, India Prabodh Khampariya Electrical Engineering Department SSSIST Sehore Bhopal, India -----***-----Abstract - In this paper, speed estimation of vector

A Review of Sensorless Control Methods for AC Motor Drives

position/speed sensorless control and present the position/speed sensorless control strategies we adopted in real industrial and household applications for AC motors Both IM and PMSM drives will be presented The IM is presented in the first part Firstly, flux and speed estimation methods for IM …

Comparative Study of Sensorless Control Methods of PMSM ...

Speed sensorless motor drives are also preferred in hostile environments, and high speed applications [12, 13] The main objective of this paper is to present a comparative study of the different speed estimation methods of sensorless PMSM drives with emphasizing of the …

Sensorless rotor position estimation of an interior ...

Sensorless Rotor Position Estimation of an Interior Permanent-Magnet Motor From Initial States Jung-Ik Ha, Member, IEEE, KozoIde, Member, IEEE, Toshihiro Sawa, Member, IEEE, and Seung-KiSul, Fellow, IEEE Abstract— This paper describes a torque, speed, or position con-trol method at standstill and low speed in the interior permanent-

Paper: Sensorless Control of Induction Motor Drives

Speed estimation is an issue of particular interest with induc-tion motor drives where the mechanical speed of the rotor is generally different from the speed of the revolving magnetic field The advantages of speed sensorless induction motor drives are reduced hardware complexity and lower cost, re-

PMSM Sensorless Speed Estimation Based on Sliding Mode ...

system gives exceptional estimation results at high and low speed ranges, without initial rotor angle knowledge Simulation results of Permanent Magnet Synchronous Motor sensorless speed estimation are also presented Index Terms— permanent magnet synchronous motor (PMSM), Lyapunov

function candidate, sliding mode observer (SMO), modified

Sliding-Mode MRAS Speed Estimators for Sensorless Vector ...

speed estimation, vector control I INTRODUCTION S EVERAL methods are available for rotor speed estimation in a sensorless induction-machine drive and they have been extensively studied in the last few decades The speed estimate is mandatory if speed control (feedback) is employed Also, the speed estimate is needed if decoupling is intended

SENSORLESS SPEED ESTIMATION IN THREE PHASE ...

sensorless speed estimation Sensorless speed estimation permits the speed sensing to be done remotely, even some distance from the motor All that is needed is access to the motor electric cables This could even be at the control centre situated remotely As the proposed technique of sensorless speed estimation is non– intrusive, it is a

Observer based Speed Estimation method for Sensorless ...

Observer based Speed Estimation method for Sensorless Vector Control of a Permanent Magnet Synchronous Machine M elle BOUACIDA Hana (1), M r LACHOURI Abderrezek (1) Automatic Laboratory, 20 Août 55 Skikda University, Algeria han_boa@yahoofr , alachouri@yahoofr Abstract - This research work is performing a study robustness

POSITION/SPEED SENSORLESS CONTROL FOR PERMANENT ...

dissertation was to develop a rotor position/speed sensorless control system with performance comparable to the sensor-based control systems for PMSMs over their entire operating range In this work, different sensorless control methods were developed for different speed regions

A Genetic Algorithm Approach for Sensorless Speed ...

sensorless speed estimation is a viable alternative to avoid the problems which associates with the system including speed sensor Many approaches have been done to obtain the speed from electrical quantities of motor during recent years Various motor speed estimation methods have been

Sensorless Vector Control of Induction Motor Drive - A ...

estimation considering speed as an unknown co nstant parameter and found out the value of estimated speed that best fits the measured an d calculated data in the dynamic equations of the motor In this section we present a sensorless vector control strategy using machine model-based speed estimation (Thongam & Ouhrouche, 2007)