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عنوان مقاله:

A Robust Controller Design to Stabilize Induction Motor Drive Operation Using (IFOC) Method

محل انتشار:

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نویسندگان:

Parsa Farmanzadeh - *Sahand University of Technology*

Mohammad Reza Azizian - *Sahand University of Technology*

Afshin Ebrahimi - *Sahand University of Technology*

خلاصه مقاله:

In this paper, a new approach has been proposed to control induction motor drives using a PI controller. The induction motor drive system is fed by a current-controlledvoltage source inverter (VSI) and indirect field oriented control (IFOC) method has been used to control the three-phase command currents. During simulation proccess, the stator threephase real currents are sensed from sensors inside the motor and regulated by hystersis controllers with comparison of thecommand currents obtained from the block proceeding the IFOC. The PI controller presented in this paper, has improvedstability of the induction motor drive effectively. A neural network has been designed as a .numerical controller to replace the original PI based cotroller to verify the results gained from the simulink

کلمات کلیدی:

Current-Controlled Voltage Source Inverter, Hysteresis Comparator, Indirect Field Oriented Control, PI Controller, Neural Network

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