

عنوان مقاله:

Predictive control based Speed, Torque and Flux Prediction of a Double Stator Induction Motor

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خلاصه مقاله:

This paper present the predictive control based speed, flux and torque prediction of a double stator induction motor. We performed first, the model of the DSIM as well as the direct vector control. We adopted the classical PI controllers for the speed control, the flux, and thus for setting the stator's currents. In order to minimize the transient control and reduce the impact of measurement noise on the control signal, we used the multivariable generalized predictive control instead the vector control, which must require a flux and torque estimation. The results show, the effectiveness of the proposed method especially in the parameters variation and/or the change of the reference speed

کلمات کلیدی:

Double Stator Induction Motor, Direct Field Oriented Control, Predictive control

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