عنوان مقاله:

Improvement Direct Torque and Flux Control of Asymmetric Six-Phase Induction Motor Using Fuzzy Controller

محل انتشار:

چهاردهمین کنفرانس سیستم های فازی ایران (سال: 1394)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

In this paper an application of the fuzzy logic scheme for direct torque fuzzy control (DTFC) of an asymmetric six-phase induction machine (SPIM) is proposed. The proposed DTFC based on fuzzy logic technique switching table is described and compared with conventional direct torque control (DTC). The proposed fuzzy control strategy is simulated using Matlab/ Simulink software. The simulation results show that DTFC method has reduced torque ripple and stator flux variation and improved dynamic response.

کلمات کلیدی:

asymmetric six-phase induction motor, fuzzy control