STRAIPSNIS

Comparative study of controller design for inverter fed indirect vector controlled induction motor drive systems / K. Ayyar, N. Mohanapriyaa, A. Nirmalkumar.

Ayyar, K., autorius.; Mohanapriyaa, N., autorius.; Nirmalkumar, A., autorius.
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Autorius	Ayyar, K., autorius. >
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Kalba	Anglų
Santrauka	This paper presented a comparative study of speed controller design for inverter fed indirect vector controlled induction motor drive systems with symmetric optimum (SO) and genetic algorithm (GA) based model order reduction (MOR) techniques. GA was used in this paper for a new MOR and optimal time domain tuning of a Proportional Plus Integral (PI) controller. Comparative studies showed that the new model order reduction technique performed better than the conventional symmetric optimum order reduction technique. The performance of this controller was investigated with time domain specifications such as Overshoot, rise time, and settling time using the MATLAB-SIMULINK digital simulation software package. The simulated results showed that the proposed controller was better than that of the conventional PI controller.
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Pastabos	This paper presented a comparative study of speed controller design for inverter fed indirect vector controlled induction motor drive systems with symmetric optimum (SO) and genetic algorithm (GA) based model order reduction (MOR) techniques. GA was used in this paper for a new MOR and optimal time domain tuning of a Proportional Plus Integral (PI) controller. Comparative studies showed that the new model order reduction technique performed better than the conventional symmetric optimum order reduction technique. The performance of this controller was investigated with time domain specifications such as Overshoot, rise time, and settling time using the MATLAB-SIMULINK digital simulation software package. The simulated results showed that the proposed controller was better than that of the conventional PI controller.
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