



Failure Diagnosis and Prognosis of Induction Machines

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Message from the Guest Editor

Induction motors present numerous advantages due to their robustness and their power-weight ratio. However, they are subject to several electrical and mechanical faults. Many methods have been developed to diagnose such failures and prevent unwanted stop. They can be based on MCSA, vibrations, noise, electrical or magnetic field, etc. Different techniques have been developed, such as the model-based approach and the data-driven approach. The data-driven method deals with signal processing, statistical tools, data mining, and artificial intelligence.

keyword:

- induction machine
- failure diagnosis
- failure prognosis
- short circuit
- open bars
- eccentricity
- artificial intelligence
- modeling
- signal processing
- degraded mode





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