Advanced Condition Monitoring and Fault Diagnosis of Electric Machines

Part of the Advances in Computer and Electrical Engineering Book Series

Muhammad Irfan (Dongling School of Economics and Management, University of Science and Technology Beijing (USTB), Beijing, China)

Premier Reference Source

Advanced Condition Monitoring and Fault Diagnosis of Electric Machines

Muhammad Irfan

Description:

The reliability of induction motors is a major requirement in many industrial applications. It is especially important where an unexpected breakdown might result in the interruption of critical services such as military operations, transportation, aviation, and medical applications.

Advanced Condition Monitoring and Fault Diagnosis of Electric Machines is a collection of innovative research on various issues related to machinery condition monitoring, signal processing and conditioning, instrumentation and measurements, and new trends in condition monitoring. It also pays special attention to the fault identification process. While highlighting topics including spectral analysis, electrical engineering, and bearing faults, this book is an ideal reference source for electrical engineers, mechanical engineers, researchers, and graduate-level students seeking current research on various methods of maintaining machinery.
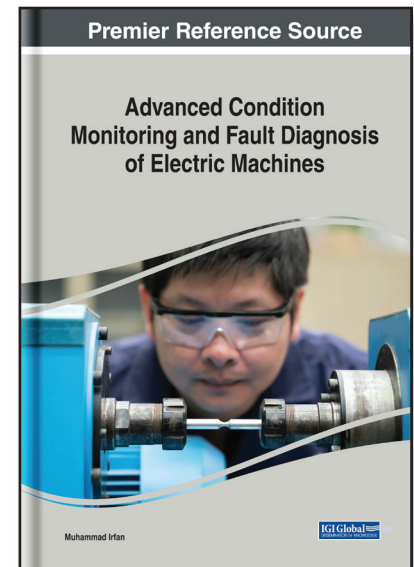
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Topics Covered:

- Artificial Intelligence
- Bearing Faults
- Electrical Engineering
- Fault Identification
- Feature Extraction
- Generator Faults
- Induction Motor
- Motor Faults
- Spectral Analysis
- Vibration Monitoring

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