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Based Techniques. Roughly half of
all electricity generated is
consumed in motors, and recent
efforts to apply artificial intelligence
(AI) to improving electric motors are
receiving attention worldwide. At
present two industrial drives
incorporate some form of AI. This
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**Artificial-Intelligence-Based
Electrical Machines and Drives
Abstract.** The article is focused on
the applied artificial intelligence in
the diagnostics of electric
machines. Attention is paid to some
developmental trends of artificial
intelligence, for example, neural
networks, fuzzy systems, genetic
algorithms and expert systems.
Having in mind the intended future
usage in electric machine
diagnostics...

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Artificial Intelligence Based Electrical Machines
Roughly half of all electricity generated is consumed in motors, and recent efforts to apply artificial intelligence (AI) to improving electric motors are receiving attention worldwide. At present two industrial drives incorporate some form of AI. This book is the first comprehensive discussion of AI

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applications to electrical machines and drives.

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Researchers soon realized that the performance of induction motor drives can be enhanced by adopting artificial-intelligence-based methods. Since the 1990s, AI-based induction motor drives have

...

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networks, it is important to note that the ANNs can be considered as “black boxes”;

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Artificial-Intelligence-based Electrical Machines and Drives: Application of Fuzzy, Neural, Fuzzy-neural, and Genetic-algorithm-based Techniques. This is the first comprehensive book which discusses numerous AI applications to electrical machines and drives. The drives considered are: d.c. drives, induction motor drives, synchronous motor drives,...

Artificial-Intelligence-Based Electrical Machines and Drives
9 Artificial-intelligence-based steady-state and transient analysis

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Application of Artificial Intelligence in Electrical ...
The artificial intelligence appears as an interesting alternative to control

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the asynchronous motor and to satisfy the desired requirements. The base element, in a fuzzy command is the fuzzy logic. The fuzzy logic belongs to the family of methods of artificial intelligence.

Artificial Intelligence in Diagnostics of Electric Machines

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intelligence of machines and the
branch of computer science that
aims to create it. Textbooks define
the field as "the study and design of
intelligent agents," where an
intelligent agent is a system that
perceives its environment

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