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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,...

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9 Artificial-intelligence-based steady-state and transient analysis of d.c. machines, estimators, control 278 9.1 General 278 9.2 AI-based steady-state and transient analysis of d.c. machines 278 9.2.1 Conventional analysis 278 9.2.2 ANN-based analysis 279 9.2.2.1 Speed estimation, 3-4-2-1 ANN, 4-4-2-1 ANN,

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Researchers soon realized that the
performance of induction motor drives can
be enhanced by adopting artificial-
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Abstract. The article is focused on the
applied artificial intelligence in the

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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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intelligence techniques have been

developed and applied in the monitoring

processes of faults, among them, the

Artificial Neural Networks (ANNs), Fuzzy

Logic (FL) and Support Vector Machines

(SVM) [5, 6, 7, 8]. Regarding the neural

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

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neural, fuzzy-neural, and genetic-
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Application of Artificial Intelligence in Electrical...

The artificial intelligence appears as an
interesting alternative to control the
asynchronous motor and to satisfy the

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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.

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and electronics engineer. For becoming an electrical engineer, compete in some competitive exam. For becoming an electronics engineer. Compete in some competitive exam or. Gain skills relating to low level computer programming languages to become a well paid electronics engineer in private sector.

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