



Artificial Intelligence Techniques in Power Systems (Hardback)

By -

Institution of Engineering and Technology, United Kingdom, 1997. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Research in artificial intelligence has developed many techniques and methodologies that can be either adapted or used directly to solve complex power system problems. A variety of such problems are covered in this book including reactive power control, alarm analysis, fault diagnosis, protection systems and load forecasting. Methods such as knowledge-based (expert) systems, fuzzy logic, neural networks and genetic algorithms are all first introduced and then investigated in terms of their applicability in the power systems field. The book, therefore, serves as both an introduction to the use of artificial intelligence techniques for those from a power systems background and as an overview of the power systems implementation area for those from an artificial intelligence computing or control background. It is structured so that it is suitable for various levels of reader, covering basic principles as well as applications and case studies. The most popular methods and the most fruitful application fields are considered in more detail. The book contains contributions from top international authors and will be an extremely useful text for all those with an interest in...



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