

Reliability Improvement of Power System Networks Using Adaptive Genetic Algorithm

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Abstract : Reliability analysis is a powerful method for determining the weak points of the electrical networks. In designing of electrical network, it is tried to design the most reliable network with minimal system shutting down, but it is usually associated with increasing the cost. In this paper, using adaptive genetic algorithm, a method was presented that provides the most reliable system with a certain economical cost. Finally, the proposed method is applied to a sample network and results will be analyzed.

Keywords : reliability, adaptive genetic algorithm, electrical network, communication engineering

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