عنوان مقاله:

An Approach Based on Particle-Swarm-Optimization for Optimal DG Sitting and Sizing in Distribution Networks

محل انتشار:

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خلاصه مقاله:

Distributed Generation (DG) unit is a small power resource that is located close to the load. In this paper locating multiple DG units by using particle swarm optimization methodto minimize the power losses is presented. The proposed method combines load flow and particle swarm optimization (PSO)algorithm to discover the suitable location and optimal size of DG unit. The focus of the paper is to minimize the total losses ofnetwork and improve the voltage profile. The study shows theimportance of installing the right size of DG in the appropriate location. This technique is tested on 10-bus system and IEEE 69-bus distribution test system

کلمات کلیدی:

Distributed Generation (DG), Particle Swarm Optimization (PSO), distribution system, optimal size and location of DG, reducing the power losses

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