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The main objective is to reduce the computation time and active power losses and improve the nodal voltage profiles. The proposed algorithms are tested on IEEE 33- and 69-bus radial distribution systems. Khaled et al. proposed a PSO to study the optimal power flow (OPF) of a power system integrated with a renewable DG. The hybrid DG wind and photovoltaic (PV) system is applied as a renewable DG on an IEEE 30-bus RDN.

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Load flow analysis is done in IEEE 33 bus radial distributed network using Forward-Backward sweep method. Using Matlab software the performance of simulated annealing is illustrated. The feasibility of the proposed system is proved with Five Distributed Generations (DGs) which may be the combinations of Solar, Wind, Fuel cell, Geothermal, Biomass, reciprocating engines, and micro turbines.

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Data for several distribution feeders, to be used in testing distribution system analysis software. Developed by the Distribution System Analysis Subcommittee, under the IEEE Power Engineering Society

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1.4 Elements of Distribution System 5 1.4.1 Distributed Feeders 5 1.4.2 Distributor 6 1.4.3 Service Mains 6 1.5 Requirements of a Distribution System 6 1.6 Classification of Distribution System 7 1.7 Features of RDN 8 1.8 Ring Main System 8 1.9 Organization of Thesis Work 8 2. Literature Survey 10

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