

عنوان مقاله:

Considering reconfiguration due to the relay operation in optimal coordination of overcurrent relays

محل انتشار:

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خلاصه مقاله:

The directional overcurrent relays (DOCRs) coordination problem is usually studied based on a fixed network topology in an interconnected power system, and is formulated as an optimization problem. In practice, the system may be operated in different topologies due to outage of the transmission lines, transformers, and generating units. The aim of this paper is to study DOCRs coordination considering the effects of the different network topologies caused by the other side relay operation in the optimization problem. In this paper, a hybrid method using The genetic algorithm (GA) and linear programming(LP) are selected in solving this complex optimization problem. The results show a robust and optimal solution can be efficiently obtained by implementing the method

کلمات کلیدی:

Reconfiguration, genetic algorithm(GA),linear programming(LP),relay coordination, power system protection

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