عنوان مقاله:

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

محل انتشار:

دومین کنفرانس بین المللی دستاوردهای نوین در علوم مهندسی و پایه (سال: 1393)

تعداد صفحات اصل مقاله: 8

نویسنده:

Amin Damanjani - *Islamic Azad University of Shahrud*

خلاصه مقاله:

The directional overcurrent relays (DOCRs) coordination problem is usually studied based on a fixednetwork topology in an interconnected power system, and is formulated as an optimization problem. In practice, thesystem may be operated in different topologies due to outage of the transmission lines, transformers, and generatingunits. The aim of this paper is to study DOCRs coordination considering the effects of the different networktopologies caused by the other side relay operation in the optimization problem. In this paper, a hybrid method usingThe 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