

The constant proliferation of distributed generators (DGs) in power networks alters the fault current paths and short-circuit levels. This leaves the conventional protection schemes ...

Request PDF | Optimized adaptive protection coordination of microgrids by dual-setting directional overcurrent relays considering different topologies based on limited independent relays ...

This work proposes a smart protection system for microgrids, which relies on an adaptive metaheuristic for the automatic calculation of optimal settings for directional overcurrent relays (DOCRs). The adaptive fuzzy ...

Development of an efficient protection strategy is one of the main barriers in paving the way for the implementation of inverter-based microgrids. The limited fault current of voltage-sourced ...

The results demonstrate that the proposed APS outperforms the PSFOS while providing faster response, higher reliability and less susceptibility to miscoordination. This ...

DOI: 10.1016/J PELECENG.2019.01.003 Corpus ID: 86517893; Overcurrent protection of AC microgrids using mixed characteristic curves of relays @article{Alam2019OvercurrentPO, ...

This paper discusses a method to perform overcurrent protection in distribution networks with the presence of distributed energy resources (DER), including renewable ...

Overcurrent protection simply means a fuse, breaker, or fusible link is used to protect the equipment, a circuit in the equipment, or the equipment's wiring. These terms are ...

Conventional protection of microgrids is usually based on the overcurrent principle using either definite time or inverse definite OC relays. In addition, voltage-based ...

PDF | On Nov 1, 2015, Siavash Beheshtaein and others published Protection of AC and DC microgrids: Challenges, solutions and future trends | Find, read and cite all the research you ...

microgrid. This study presents an adaptive overcurrent protection that integrates technical and economic advantages of fuses and relays in a microgrid with distributed generators. This fuse ...

In this paper, optimum settings of directional overcurrent relays (DOCRs) considering different characteristic curves for the protection of AC microgrids with islanded and ...

Request PDF | Application of uPMUs for Adaptive Protection of Overcurrent Relays in Microgrids | This paper proposes a new application of micro-Phasor Measurement ...

DC microgrids have advantages over AC microgrids in terms of system efficiency, cost, and system size. However, a well-designed overcurrent protection approach ...

An adaptive current protection is presented for microgrids in, which uses event tables for each relay recorded in the control centre. An adaptive overcurrent protection is ...

This research presents an adaptive directional OC method for DC microgrids utilizing the IEC 61850 communication protocol, which employs K-means clustering to define ...

Web: <https://www.sailesindustrialmachinery.co.za>