

Abstract--This paper explains how microprocessor-based protective relays are used to provide both control and protection functions for small microgrids.

This comprehensive article explores how innovative relay protection strategies can safeguard microgrid operations amid the challenges posed by modern electric power transmission, control, and ...

New relay protection algorithms have become necessary because of the special features of microgrid regimes with distributed power generation sources.

This paper presents an adaptive decentralized protection technique for ensuring the coordination of overcurrent relays in a microgrid network, even under situations of uncertainty.

Synchronizing protection for directional OC relays is difficult due to the necessity for quick response to the extremely rapid rise times of fault currents in DC systems. During faults in DC...

The article explains how adaptive protection schemes address the unique operational challenges of microgrids operating in grid-connected and islanded modes. It outlines microgrid protection ...

Such behavior impacts the overcurrent relays and makes the protection coordination difficult. This paper introduces a novel adaptive protection system that includes two phases to handle ...

This is achieved through the design of distributed data-driven techniques based on the support vector machine method, where each relay is responsible for distributed data collection, fault detection, fault ...

Do microgrid relays perform well in macrogrids? Although years of operation in macrogrids support these relays, their performance for microgrids is yet to be analyzed. This paper presents such analysis for ...

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