Microgrid longitudinal differential protection

This paper presents a statistically adaptive differential protection scheme based on Kullback-Leibler divergence, which is practically implemented via a Bartlett-corrected G-statistic computed on ...

In order to ensure that the protection strategy can correctly detect short-circuit faults in case of communication faults, it is proposed to multiplex local power gradients to form non-unit ...

Low-voltage DC power distribution system has obvious advantages in distributed power supply grid connection, power supply quality and power dispatch management, which is an important way to ...

Model simulation which is differential protection for microgrids will be presented in Matlab Simulink. The model consists of three phase, three sources, 50 HZ, 22kv distribution line with impedance of ...

Therefore, considering these limitations, this article proposes a novel differential protection scheme for AC microgrid designed on the difference in Percentage Bias Error (PBE), calculated at ...

In this paper, we propose a longitudinal directional differential protection method based on variable slope multi-stage delay, which solves the problem of traditional differential protection scheme insensitive to ...

This paper presents a protection scheme for the buses present in a micro grid that is based on the differential current principle. It is done with the help of a centralized protection controller that enables ...

This novel relaying algorithm, in tandem with backup protection, overcomes issues such as missed operations and sympathetic tripping and harmonic injection experienced by traditional over-current ...

In this chapter, protection for smart grids using differential relays is presented. The differential scheme is a very reliable method of ensuring the safety of protected areas.

This paper aimed to systematically introduce the research situation about the protection technology for DC microgrid system at home and abroad.

Web: https://moritz-kenk.eu