

intelligent detection and diagnosis of faults in a hybrid AC/DC microgrid. The possibility of detecting and locating faults ... Keywords--microgrid, fault detection and diagnosis, fuzzy logic ...

This paper introduces a DC-link fault detection and synchronization control strategy for grid-forming inverters in hybrid DC/AC microgrids, aiming to bolster system stability and reliability. ...

This paper focuses on the fault analysis and intelligent detection and diagnosis of faults in a hybrid AC/DC microgrid. The possibility of detecting and locating faults rapidly enables the grid ...

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1 ??· To enhance fault detection efficiency, it is crucial to ascertain the direction of fault currents precisely. Protection professionals find it challenging to determine the fault direction in ...

Developed a novel feature exploration-based spiking neural network for accurate and efficient fault detection in microgrids; when compared with existing methods, the proposed method ...

Different challenges were faced whilst detecting location of different faults in AC microgrid. Various knowledge-based methods for fault detection, classification and location ...

Distributed generation hybrid AC/DC microgrid protection: A critical review on issues, strategies, and future directions. Int J Energy Res (2020) ... This study introduces a ...

With the development of green energy, AC/DC microgrids become popular for integrating more renewable energy sources. However, comparing to traditional AC distribution grid, the grid ...

A critical review of AC Microgrid protection issues and available solutions. ... C. et al. Intelligent fault detection system for microgrids. ... An effective data-driven machine ...

Keywords: Hybrid AC/DC microgrids, AC subgrids, DC subgrids, protection challenges, protection schemes. 1. Introduction ... [10]. Hence, fault detection strategies for the islanded operating ...

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Even though the implementation of hybrid AC/DC microgrid is increasing, their protection schemes face

multiple challenges such as inconsistent fault current supply from DGs, difficulty ...

When a fault is detected in the AC or DC microgrid, the proposed algorithms activate to pinpoint the fault and determine its type in the faulty microgrid. The adaptive protection approach ...

AC Hybrid Microgrid Fault Detection

