DC Microgrid Classification

In this paper, the potential for Machine Learning (ML) multi-class classifiers to identify fault type and fault resistance in a DC Microgrid is explored. The ML algorithms are trained using simulated fault data ...

This section presents the proposed fault detection and classification methodology for DC microgrid clusters. Initially, a brief overview of the proposed system is discussed.

Microgrids are classified as DC-Microgrid or AC-Microgrid [5]. DC-Microgrid has the benefits of high performance. It may be more useful than AC microgrids.

This paper presents a current and current derivative based fault detection and fault classification scheme. Current and current derivatives are taken and is processed through a binary classification ...

This paper analyzes the differences between AC and DC power quality and constructs the DC power quality index system. The DC harmonic, voltage fluctuation and flicker, voltage sag, voltage ...

2 Microgrid Classification and Architecture A MG system can be classified into several categories based on different criteria, including generating capacity, operational modes, distribution ...

Microgrids can be categorized via different aspects ranging from the structure such as DC, AC, or hybrid to control scheme such as centralized, decentralized or distributed. This chapter ...

However, due to the zero-frequency characteristic of DC system, its power quality presents new characteristics. This paper analyzes the differences between AC and DC power quality and ...

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