Bowei Distribution Network Power Engineering

DOI: 10.1016/j.ijepes.2024.110144 Corpus ID: 271563227; Electric shock fault identification method based on DWT-AE-BPNN for residual current devices in power distribution systems

An LV distribution network is defined as a network with a maximum limit of voltage level 1 kV based on British standards (Engineering Technical Report 140, 2017). Moreover, around the world, the most common voltage levels of LV ...

Power distribution network load flow (PDNLF) is a key tool for analyzing the performance of distribution system operation and planning and has evolved in several different ...

The situation gets worsened by the harmonic resonance introduced by the installation of power factor correction (PFC) capacitor banks in the distribution network. At the same time, more and ...

Active distribution networks (ADN) may operate in different modes according to the generation demand balance and the capacity of the primary grid for imposing a constant frequency. Conventionally, a customized ...

The power distribution system is the one that exports the power system from the step-down distribution substation (high-voltage distribution substation) to the user. The distribution system ...

Distribution network is one of the main part of power systems as it is connected directly to the load center. The concept of integrating renewable and distributed energy sources in distributed ...

When the distributed PV power station is connected to the power distribution network below 10 kV, the peak period of distributed PV power generation will be transmitted to ...

The Electric Power Research Institute (EPRI) has defined distributed generation as the "utilization of small (0 to 5 MW), modular power generation technologies dispersed throughout a utility"s distribution system in ...

Reconfiguration of distribution network is aimed to minimize power loss and to improve voltage quality in order to enhance the distribution system performance. In this study, ...

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