10kv microgrid line impedance

A new micro-grid protection scheme based on relative measurement impedance and sequence component theory can be adopted to the particularity of fault characteristics of micro-grid.

How can a GPS-based microgrid improve stability? An impedance and inner controller design approach considering both stability constraints and power quality requirements based on the small-signal ...

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Line-impedance measurements can be employed to develop sophisticated signaling schemes which adapt to varying PLC channel conditions. The developed hardware utilizes 0.05- ...

This article proposes an outer virtual impedance loop to shape the output voltage in such microgrids. In order to achieve this, a virtual impedance extracting and shaping filter is first proposed to extract and ...

This paper presents a method based on difference between DG impedance and equivalent impedance of grid for microgrid transmission line to ensure correct action of protection.

This work describes and evaluates by simulation a method of parametric estimation of the line impedance that connects generators and loads to a common connection point in an AC microgrid. ...

This calculation can offer sequence impedance value as well as phase impedance. The effectiveness of the calculation will be introduced in this report with an example of unbundled 3 phase and ground ...

In the present article, a protection scheme based on impedance is suggested for fault detection in LV and MV overhead and cable distribution lines in both grid-connected and islanded ...

The paper proposes an impedance adaptation method utilizing multi-winding transformer switching to alter the turns ratio, thus accommodating the effects of carrier wave reflection resulting from various ...

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