

A method for automatic correction of the setpoint of the intelligent protection complex and an adaptive relay protection algorithm was developed, taking into account changes in climatic ...

The relay protection system determines whether a fault has occurred in the power system by monitoring parameters such as current and voltage, the phase relationship, and the power ...

The intelligent substation is equipped with many relay protection systems, each with unique hardware features that have a substantial influence on their operational lifespan, working ...

Based on this, this article proposes an intelligent control method based on neural networks, which can adopt different protection methods according to different fault types and locations under ...

A wide range of operational data for relay protection systems, including different operating states and performance levels, may be collected by gathering data from the output network ...

Based on sectional and centralized-distributed wide-area relaying protection system architecture, a novel wide-area backup relaying protection algorithm is proposed in this paper.

In this research project, Artificial Intelligence (AI) algorithms applied to the relay protection of high and low-voltage distribution networks are investigated.

Protective relays and devices have been developed over 100 years ago to provide "lastline" of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the balance of ...

The new generation of intelligent substations has achieved online monitoring functions for secondary equipment, making some state variables of relay protection equipment become ...

The approach proposed is to lump all conventional protection relays and functions into a Generic Relay. Furthermore, with the addition of a knowledge base, the complete protection system becomes an ...

The intelligent substation is equipped with many relay protection systems, each with unique hardware features that have a substantial influence on ...

Based on the identified shortcomings of this existing technical solutions for the implementation of relay protection electrical networks, a method for implementing intelligent relay protection is proposed, ...

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