Relay Protection High-Efficiency

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

The implementation of digital normative and technical documents (DNTD) in the electric power industry, especially in the field of relay protection (RP), signifi

Assessment of practical applicability and efficiency of relay protection devices based on fuzzy logic by comparing their operation with conventional protection methods, considering different ...

This paper proposes a relay protection scheme based on random forest algorithm, combined with IoT technology for real-time data collection and processing, to improve the sensitivity ...

To improve the reliability and sensitivity of multi-level relay protection in distribution networks with distributed power sources, this study designs an adaptive setting strategy optimization ...

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 ...

By integrating various intellectual property (IP) cores into the FPGA, a system-on-chip with complex functions and high reliability can be realized. System-on-chip (SoC)-based relay ...

Developing and applying intelligent relay protection systems has become an important way to improve the safety and reliability of power systems. This article explored the relay protection ...

By integrating various intellectual property (IP) cores into the FPGA, a system-on-chip with complex functions and high reliability can be realized. ...

The experimental results show that this method can effectively analyze the operation characteristics of power system relay protection, and can accurately check whether the relay ...

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