Relay Protection Fault Expert System

This article proposes a relay protection fault diagnosis method based on deep learning, which improves the accuracy and efficiency of fault recognition by constructing a model combining convolutional ...

Abstract--Modern digital protective relays generate various files and reports which contain abundant data regarding fault disturbances and protection system operation. This paper presents an expert ...

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 ...

The article presents an exhaustive compilation of 220 sets of sample data for the fault categories that are relevant to the relay protection system devices of substations in the Guizhou ...

This paper proposes a relay protection fault diagnosis method, which classifies the existing fault diagnosis expert knowledge into categories, and extracts the common fault diagnosis expert ...

Abstract--Transmission line protective relays are assuring normal operation of power system by automatically isolating faulted sections. Different disturbances in power system could affect relay ...

Aiming at the problem that the current fault state of the equipment is difficult to be effectively determined based on the self-checking alarm information of the equipment, this paper proposes two ...

To promptly detect the faults of the relay protection system and the circuit breakers in time and to ensure the operational reliability of these protective ...

The experimental results demonstrate that the proposed method accurately identifies faulty operation states in relay protection devices and exhibits adaptability to power systems of ...

To promptly detect the faults of the relay protection system and the circuit breakers in time and to ensure the operational reliability of these protective devices, this paper proposes a fault ...

Abstract--This paper presents an expert system which performs detailed diagnosis of digital relay operation by analyzing data contained in relay files and reports.

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