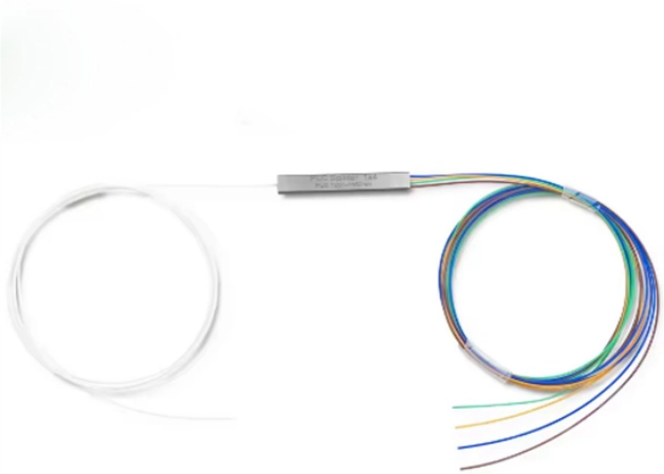
Indzawo Optic Connect

Analysis of Typical Defects in Secondary Circuits of Relay Protection



Overview

This paper will focus on the analysis of the common problems in the maintenance process of the relay protection secondary loop, such as misoperation, bad terminal contact, improper shielding measures, insulation performance decline, etc., in order to provide effective solutions and reference basis. This article proposes a comprehensive diagnosis algorithm for the insulation status of secondary AC circuits based on distributed zero-sequence current monitoring, waveform similarity analysis and third harmonic analysis, which can effectively improve the effectiveness of circuit insulation fault. 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 tracing method for a relay protection system–circuit breaker based on improved Random Forest. Firstly, an. 1Artificial Intelligence Key Laboratory of Sichuan Province, Zigong 643000, China; 2School of Automation & Information Engineering, Sichuan University of Science & Engineering, Zigong 643000, China. With the development of

communication technology, the cable of interactive information in.

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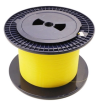
This study suggests a method for diagnosing defects and evaluating the relay protection system in light of the aforementioned concerns. The method ...



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In view of the complex structure of a substation secondary circuit, a wide variety of equipment, and the problem of fault misjudgment or missing judgment, a fault diagnosis method for ...

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The accurate diagnosis and disposal of relay protection defects play an important role in ensuring the function of relay protection and the safe operation of po

The relay protection secondary loop plays a vital role in the power system. It is responsible for the real-time monitoring and fault protection of the power equipment.

On this basis, many researchers have proposed a large number of related technologies and research to improve the reliability of relay protection secondary circuit and quickly locate faults to improve ...

This study suggests a method for diagnosing defects and evaluating the relay protection system in light of the aforementioned concerns. The method is founded on the K-means clustering ...

Abstract The insulation status of the secondary circuit in the power system plays a very important role in ensuring reliable power supply and safe production. In actual application onsite, ...

Based on 7-years defect data of RPDs in SGCC, this paper discovers the association rules (ARs) of defect data based on the Apriori algorithm. In detail, the ARs among different categories of PRDs, ...

	Recognizing the above problems, based on the 10-year field data, this paper proposes fault tree analysis for the IAs of RPS to discover relationship between the IAs and device defects.

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