

Epon Distribution Network Automation



Overview

This paper introduces the basic principle of EPON and discusses the feasibility of EPON applied in distribution automation system from the aspects of transmission ability, reliability, security, expandability and economical efficiency. Based on analysis of the structures commonly applied in. The purpose of the study is to ensure that human production and life has efficient and high-performance energy supply, so that the comprehensive energy planning can be organically coordinated and optimized, and the power system as the basis of the comprehensive energy system can supply energy. Distribution automation (DA) in terms of transformer economic operation (TEO), distribution network reconfiguration (DNR), and sectionalising switch placement (SSP) is recognised as the most effective way for distribution network operators (DNOs) to increase operation efficiency and reliability. Ultimately, a true single-data model unlocks a huge range of benefits. Based on analysis of the structures commonly applied in.



Article Content

Application Research of EPON in Distribution Automation System

The following discusses the feasibility of EPON applied in distribution automation system from the aspects of transmission ability, reliability, security, expandability and economical...

Communication network structure based on EPON

Figure 2 shows a typical application of EPON in a distribution network automation communication network.

EPON technology used in distribution automation system in

Second, the calculation method of optical attenuation was proposed for EPON technology and the optical loss in distribution automation communication network.

The reference architecture of EPON

This paper introduces the basic principle of EPON and discusses the feasibility of EPON applied in distribution automation system from the aspects of transmission

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Kraken is the advanced operating system for utilities delivering exceptional customer experiences, advanced asset optimization and streamlined field management

The reference architecture of EPON

In distribution automation system, the optical cable is laid along power cable direction, so the structure of communication network should coincide with the

The Communication Network Scheme Based on EPON and Industrial

The analysis shows that the scheme can improve the reliability of transmission while guaranteeing the business security, and has reference value for the planning construction of smart distribution

The Communication Network Scheme Based on EPON and

The scheme using the advantage of EPON and industrial Ethernet technology, transmits different partitions business on distribution network. The analysis shows that the scheme can

Research on Digital Network Communication System for Distribution ...

EPON is a passive optical network based on Ethernet technology. EPON uses optical fiber as the medium, uses passive distributed devices to distribute and concentrate optical signals, and uses

EPON communication network and its regional autonomy in distribution ...

Then the key technology of Ethernet passive optical network (EPON) and its linking to the backbone communication network in the large-scale distribution system is studied.

Research on Distribution Network Automation Communication

Through using a variety of means of communication networking, the integrated solutions of distribution network automation communication technology implements the distribution network communication

EPON technology used in distribution automation system in

It helps grasping the loss and reliability of the distribution automation system at any time, and provides the practical basis for the calculation of the power supply efficiency of the power system.

Security mechanism for distribution automation using EPON

Request PDF | Security mechanism for distribution automation using EPON | In electrical power industry, a reliable communication network constitutes the core of the distribution automation

Study on communication scheme of distribution network automation

Study on communication scheme of distribution network automation based on EPON technology Abstract:

CN111885436A

The invention relates to a distribution network automation communication system based on EPON technology, and belongs to the technical field of distribution network automation.

Communication System for Distribution Automation Using EPON

This paper proposes a novel communication method for distribution automation using Ethernet Passive Optical Networks (EPON). Based on centralized control scheme, a three-layer communication

Application Research of EPON in Distribution Automation System ...

This paper introduces the basic principle of EPON and discusses the feasibility of EPON applied in distribution automation system from the aspects of transmission ability, reliability, security,

DISTRIBUTION NETWORK AUTOMATION FOR MULTI-OBJECTIVE

The performance of the optimisation techniques has been assessed and illustrated by various case studies on three distribution networks. The obtained optimum network configurations

EPON, a long-haul Ethernet access technology

EPON is a long-range Ethernet access technology based on fiber optic transport network that adopts a point-to-multipoint architecture.

The Application of EPON Communication Technology in

In the combination with the principle of communication technology, dynamic bandwidth allocation mechanism and the requirement of intelligent

Title of Article (Use Title of Paper style)

Abstract This paper introduces the basic principle of EPON and discusses the feasibility of EPON applied in distribution automation system from the aspects of transmission ability, reliability, security,

EPON technology used in distribution automation system in

First, EPON (Ethernet Passive Optical Network) technology was proposed, and the transmission principle and advantages of EPON technology were described. Second, the calculation

Impacts of EPON-Based Communication Networks on Differential

In literature , an access control mechanism for distribution automation with a communication network using Ethernet Passive Optical Network (EPON) is described. A protection

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