

The Impact of Cable Discharge on Optical Cables

An improved polarization control algorithm (Adamax) is proposed based on the analysis of the ultrasonic characteristics of cable partial discharge.

The influence of the optimal detection position of partial discharge and the number of optical fiber sensing probes on the sensitivity of the optical fiber sensing system is studied.

Assessing Deterioration of ADSS Fiber Optic Cables Due to Corona Discharge. Power Systems Engineering Research Center educating next generation of power engineers.

Detecting partial discharges in cable joints is critical for timely defect identification and reliable transmission system operation. To improve the long-term reliability and sensitivity of the sensing ...

To improve the long-term reliability and sensitivity of the sensing system, a novel method for cable joint monitoring based on implanting optical fibers within the joint structure is proposed.

The practical limitations of conventional electrical partial discharge (PD) monitoring systems constrain their use for long-term and long-distance implementations. Fiber optic-based PD ...

Partial discharge (PD) in power cables is a significant precursor to cable insulation aging and failure. Accurately monitoring PD is crucial for ensuring the safe and stable operation of power ...

This paper proposes a low-power, fiber-powered acoustic emission sensing system for partial discharge (PD) monitoring in cable joints. Firstly, finite element simulations are conducted to ...

However, as voltage levels increase and cables are in operation for extended periods, the insulation material at cable joints may develop local defects due to the combined effects of electrical and ...

This research focuses on the application of the Distributed Acoustic Sensing (DAS) system in the field of partial discharge monitoring of Optical Fiber Composite Overhead Ground Wire ...

Partial discharge (PD) in power cables is a significant precursor to cable insulation aging and failure. Accurately monitoring PD is crucial for ensuring ...

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