

## 论文

### 高压设备智能化方案及技术特征

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#### 摘要:

提出了一种高压设备的智能化方案, 其核心是增设一个智能组件, 集中整合测量、控制、监测等智能电子装置(intelligent electronic device, IED), 通过传感器和执行器与高压设备形成一个有机的整体, 使高压设备具备测量数字化、控制网络化、状态可视化、功能一体化和信息互动化的智能特征。同时对智能高压设备的主要技术原理和智能组件的原则方案进行了简要论述。

#### 关键词:

### Technical Characteristics and Solution of Smart High-Voltage Equipment

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#### Abstract:

This paper proposes a solution of smart high-voltage (HV) equipment. The core of the proposed solution is that an intelligent component is added in which all intelligent electronic devices (IEDs) for measurement, control, monitoring, etc. are congregated and connected to the HV equipment through sensors and controllers, thus HV equipment possess such technical features as digital measurement, network control, condition self-evaluation, function integration and information interaction. The essential technical features of smart HV equipment and the principle solution of intelligent components are described in brief.

#### Keywords:

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