

国家重点基础研究项目

绝缘子冰闪特性和提高冰闪电压措施研究综述

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摘要:

在覆冰、污秽、积雪、高海拔等因素综合作用下, 绝缘子的外绝缘性能将显著降低。2008年初的极端冰灾天气导致我国输电线路和变电站的绝缘子发生大面积冰闪、跳闸、设备损坏等事故, 造成了巨大的经济损失。因此对绝缘子冰闪特性研究现状和提高冰闪电压措施进行了分析, 提出了针对超、特高压绝缘子冰闪特性研究的建议, 可作为我国绝缘子冰闪特性研究的参考。

关键词:

Review on Flashover Characteristics and Measures to Improve Flashover Voltage of the Ice-Coated Insulators

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Abstract:

Under the combined action of such factors as ice-coating, pollution, accumulated snow and high altitude, the external insulating performance of insulators will be degraded evidently. The extreme weather at the beginning of 2008 that brought ice disaster led to many accidents such as large-area flashover caused by ice-coated insulators, trip-out of transmission lines and equipment damage and caused huge economic losses. In this paper the present situation of the research on flashover characteristics of ice-coated insulators and existing measures to improve ice-coating caused flashover voltage are analyzed, and several suggestions to the research on flashover characteristics of ice-coated insulators used for EHV and UHV transmission lines in China are proposed.

Keywords:

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