

高电压技术

广州地区线路盘式防污型玻璃绝缘子的自然积污规律

李恒真, 刘刚, 李立涅

华南理工大学电力学院

摘要:

为研究线路盘式防污型玻璃绝缘子的自然积污规律,在广州地区建立试验点进行了为期2年的自然积污试验。根据上述试验数据,对上下表面等值附盐密度(equivalent salt deposit density, ESDD)和不可溶物密度(non soluble deposit density, NSDD)的季节性、相关性、积污不均匀性和灰盐比4个方面进行了研究,对各个方面的具体特征进行了描述及解释。研究认为,上述4个方面的各种特性主要是降雨对盐密和灰密冲刷效果的差异、降雨对上下表面冲刷效果差异以及上下表面旱季的积污差异等多种因素作用的结果。

关键词: 自然积污 降雨冲刷 季节性 积污不均匀性

Natural Contamination Deposit Law of Line Disc Anti-contamination Glass Insulator in Guangzhou Area

LI Hengzhen, LIU Gang, LI Licheng

School of Electric Power, South China University of Technology

Abstract:

In order to study the natural contamination depositing law of line disc anti-contamination glass insulator, experiments have been conducted for two years in Guangzhou. This article analyzed the seasonal character, the correlation character, the contamination depositing uneven character and the ratio between soluble deposit density (NSDD) and equivalent salt deposit density (ESDD) based on the experimental data. The information of the four characters was described, and the reason of their performance was explained. Finally, it was found that these characters are mainly caused by the different rain washing effects between upper surface and lower surface, ESDD and NSDD; and the natural contamination depositing situation in dry season.

Keywords: natural contamination depositing rain washing effect seasonal character contamination depositing uneven character

收稿日期 2010-09-15 修回日期 2011-02-14 网络版发布日期 2011-10-24

DOI:

基金项目:

国家重点基础研究发展计划项目(973项目)(2009CB724507)。

通讯作者: 李恒真

作者简介:

作者Email: zidian_2008@foxmail.com

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(363KB)
- ▶ [HTML全文]
- ▶ 参考文献[PDF]
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ 引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶ 浏览反馈信息

本文关键词相关文章

- ▶ 自然积污
- ▶ 降雨冲刷
- ▶ 季节性
- ▶ 积污不均匀性

本文作者相关文章

- ▶ 李恒真
- ▶ 刘刚
- ▶ 李立涅

PubMed

- ▶ Article by Li,H.Z
- ▶ Article by Liu,g
- ▶ Article by Li,L.Y