

重点理论研究

掏挖与岩石锚杆复合型杆塔基础抗拔试验与计算

程永锋,鲁先龙,丁士君,张琰

中国电力科学研究院

摘要:

掏挖与岩石锚杆复合型杆塔基础是输电线路新型基础。开展了掏挖与锚杆基础组合使用的复合型杆塔基础的现场抗拔试验,监测了复合基础荷载位移特性。根据复合基础荷载位移特性和破坏形式,分析了其抗拔承载过程和机理,提出了其抗拔极限承载力计算方法,并将试验与理论计算结果进行了对比验证,二者吻合性较好,研究成果可为复合型杆塔基础设计和工程应用提供依据。

关键词:

Experimental and Computational Research on the Uplift of Composite Foundation of Belled Pier and Rock Anchor in Transmission Line Engineering

Abstract:

The composite foundation of belled pier and rock anchor is a new type tower foundation in transmission line engineering. The uplift test was carried out and the load-displacement characteristic was monitored. Based on the test data, the foundation uplift load bearing characteristic and failure pattern were analyzed. The calculation methodology on ultimate uplift capacity of composite foundation was proposed and was also verified by the field test results. The research result could give reference to future similar design and application.

Keywords:

收稿日期 2012-01-05 修回日期 2011-12-15 网络版发布日期 2012-06-07

DOI:

基金项目:

通讯作者: 鲁先龙

作者简介:

作者Email: luxianlong@163.com

参考文献:

本刊中的类似文章

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(1964KB)
- ▶ [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

本文作者相关文章

- ▶ 程永锋
- ▶ 鲁先龙
- ▶ 丁士君
- ▶ 张琰

PubMed

- ▶ Article by Cheng,Y.F
- ▶ Article by Lv,X.L
- ▶ Article by Ding,S.J
- ▶ Article by Zhang,y