

## 滑坡工程治理效果分形预测研究

### Fractal prediction of treatment effect of landslide

中文关键词: [滑坡](#) [工程治理](#) [效果评价](#) [分形预测模型](#) [应用研究](#) [实测验证](#)

英文关键词: [landslide](#) [engineering treatment](#) [effect evaluation](#) [fractal prediction model](#) [application re? search](#) [measurement verification](#)

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中文摘要:

以滑坡变形时间序列为基础, 构建分形预测模型, 进行了稳定性预测研究和治理效果评价分析。依据杭金衢高速公路的K103滑坡治理的实际情况, 基于位移时序数据, 采用分形预测模型评价其工程治理效果和评价其安全稳定性状况, 并用实测地下水位埋深变化情况和抗滑桩动态变位情况予以验证。结果明: 滑坡治理采用的应急处治方案和永久加固方案切实可行, 各项工程措施均充分发挥了功能效应, 对滑坡治理效果显著, 目前处于安全稳定状态。

英文摘要:

Based on time-series of landslide deformation, a fractal prediction model was established, which can be used to carry out the study on stability prediction and evaluation analysis of treatment effect. According to the actual situation of engineering treatment of K103 landslide in Hangzhou - Jinhua - Quzhou Expressway, and based on time-series data of landslide displacement, the fractal prediction model was adopted to evaluate the effect of engineering treatment and feedback the status of safety stability. Moreover, the change of groundwater depth and the displacement of anti-slide piles were used as references for proceeding a comparison with measurement and verification. The results show that the emergency transact scheme and permanent reinforcement scheme of landslide treatment are feasible, and various engineering measures have fully played their functional effects. Due to the comprehensive action of treatment measures, the treatment effect of landslide is significant, and the landslide is stable at present.

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