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Title: Design and application of a monitoring system for unstable cut slope

作者: [张卫中](#)^{1; 2}; [尹光志](#)^{1; 2}; [李东伟](#)^{1; 2}; [康钦容](#)^{1; 2}

1. 重庆大学资源及环境科学学院, 重庆400030;
2. 西南资源开发及环境灾害控制工程教育部重点实验室, 重庆400030

Author(s): [ZHANG Wei-zhong](#)^{1; 2}; [YIN Guang-zhi](#)^{1; 2}; [LI Dong-wei](#)^{1; 2}; [KANG Qin-rong](#)^{1; 2}

1. College of Resource and Environmental Sciences, Chongqing University, Chongqing 400030, China;
2. Key Laboratory for the Exploitation of Southwest Resources and the Environmental Disaster Control Engineering of Ministry of Education, Chongqing University, Chongqing 400030, China

关键词: [路堑边坡](#); [监测系统](#); [地质灾害](#)

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摘要: 通过对边坡的监测,不仅可以掌握滑坡体的变形特征和滑移规律,同时在滑坡治理期间还可以实现信息反馈,这对滑坡治理优化设计、信息化施工和保证工程质量具有重要的意义。结合向家坡路堑边坡的具体地形地貌以及滑坡等情况,进行了综合研究,设计出了以地表监测为主、辅以深部位移监测及地下水监测的多层次综合监测系统,使监测结果能为滑坡预报预警和防灾决策提供依据;经现场1年多的测试,效果很好。

Abstract: By use of slope monitoring,it is possible to grip on deformation characteristics of slope body and to realize information feed back during landslide control. This is of great miportance for optimized design,informationized construction and engineering quality guarantee of the landslide control. considering the situation of topography,land form and landslide in Xiangjiapo cut slope,the comprehensive research was conducted and a hierarchial integrated monitoring system was designed,which includes not only the main surface displacement monitoring but also the subsidiary deep displacement and water table monitoring.The field application shows that this monitoring system is practical and effective.

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作者简介:张卫中(1977-),男,博士研究生,主要从事地质灾害预测与防治方面研究.E-mail:gzyin@cqu.edu.cn

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