

# 防灾减灾工程学报

第31卷第2期

2011年4月

## 目 次

### 论文

- 铁磁形状记忆合金研究进展与展望(I):本构模型 ..... 李爱群,陈 鑫,左晓宝(117)  
深水高桩嵌岩桥墩抗撞能力分析 ..... 王君杰,姜 华(131)  
基于阻尼器反力墙体体系的特大型LNG储罐控制研究 ..... 张瑞甫,翁大根,倪伟波,等(138)  
双层板桁钢梁应力分析 ..... 焦常科,李爱群(146)  
锈蚀钢筋混凝土圆柱抗震性能的试验研究 ..... 马 颖,贡金鑫,赵顺波(152)  
船舶正撞刚性墙力—撞深关系的简化公式研究 ..... 孟德巍,王君杰(160)  
基于人工蜂群算法的边坡最危险滑动面搜索 ..... 康 飞,李俊杰,马震岳(166)  
软弱结构面水流冲刷形成集中渗漏通道机制研究 ..... 叶合欣,董 明,董海洲(173)  
不同掘进工艺煤与瓦斯流固耦合数值模拟研究 ..... 梁 冰,李 野(180)  
多孔金属材料刚柔吸能结构及其在冲击地压巷道支护中的应用 ..... 吕祥锋,潘一山,李忠华(185)  
西安咸阳国际机场污水排放口潜在滑坡稳定性分析 ..... 徐 平,王阿丹,李同录,等(191)  
2009年秋至2010年春我国西南地区干旱及与历史场次干旱对比分析 ..... 刘建刚,万金红,谭徐明,等(196)  
大渡河干海子滑坡稳定性研究 ..... 杨智勇,吉 锋(201)  
基于GIS的电力工程勘察信息系统设计研究 ..... 王小明,朴春德(207)

### 汶川地震考察与研究

- 汶川地震高速远程滑坡速度研究 ..... 方 华,裴来政,向灵芝(212)  
四川石亭江流域汶川地震滑坡崩塌分布及控制因素分析 ..... 邓 茜,王运生,魏 鹏,等(218)

### 综述

- 轨道交通运行引起的场地振动实测研究现状 ..... 张 杨,陈国兴,毛昆明,等(225)

# Journal of Disaster Prevention and Mitigation Engineering

Vol. 31 No. 2

Apr. 2011

## CONTENTS

Progress and Prospect of Ferromagnetic Shape Memory Alloy( I ): Constitutive Model	..... LI Ai-qun, CHEN Xin, ZUO Xiao-bao(117)
Quasi-static Analysis of Anti-collision Capacity of High Piers Embedded in Rock under Deep Water	..... WANG Jun-jie, JIANG Hua(131)
Study on Seismic Control of Large-scale LNG Storage Tank Based on Damper Reaction Wall Isolation System	..... ZHANG Rui-fu, WENG Da-gen, NI Wei-bo, et al. (138)
Stress Analysis for Double-deck Steel Trussed Girders	..... JIAO Chang-ke, LI Ai-qun(146)
Experimental Study on the Seismic Behavior of Corroded Circular RC Columns	..... MA Ying, GONG Jin-xin, ZHAO Shun-bo(152)
Study on Simplified Formulae for Impact Force-indentation Relationship under Frontal Impact of Ship-bow to Rigid Wall	..... MENG De-wei, WANG Jun-jie(160)
Searching for Critical Slip Surface of Slops Based on Artificial Bee Colony Algorithm	..... KANG Fei, LI Jun-jie, MA Zhen-yue(166)
Mechanism Research on Concentrated Leakage Passage Formed by Water Flow Erosion in Weak Structure Plane	..... YE He-xin, DONG Ming, DONG Hai-zhou(173)
Numerical Simulation of Fluid-solid Coupling of Gas in Coal Face under Different Tunneling Technics	..... LIANG Bing, LI Ye(180)
Rigid-flexible Energy Absorbing Structure with Porous Metal Material and Its Application to Roadway Support of Rockburst	..... LU Xiang-feng, PAN Yi-shan, LI Zhong-hua(185)
Stability Analysis of Potential Landslide at Sewage Outlet of Xianyang Internatinoal Airport in Xi'an	..... XU Ping, WANG A-dan, LI Tong-lu, et al. (191)
Drought in Southwest China from Autumn 2009 to Spring 2010 and Its Comparative Analysis with Historical Drought Events	..... LIU Jian-gang, WAN Jin-hong, TAN Xu-ming, et al. (196)
Research on Stability of Ganhaizi Landslide in Dadu River Basin	..... YANG Zhi-yong, JI Feng(201)
Design Studies of Information System for Power Engineering Investigation and Surveying Based on GIS	..... WANG Xiao-ming, PIAO Chun-de(207)
Study on Kinematic Velocity of High-speed and Long-range Landslides Induced by Wenchuan Earthquake	..... FANG Hua, PEI Lai-Zheng, XIANG Ling-zhi(212)
Distribution and Control Factors Analysis of Wenchuan Earthquake-caused Landslide and Collapse in Shiting River Basin of Sichuan Province	..... DENG Qian, WANG Yun-sheng, WEI Peng, et al. (218)
Status Quo of Research on Measurement of Ground Vibration Induced by Rail Transit	..... ZHANG Yang, CHEN Guo-xing, MAO Kun-ming, et al. (225)