

ISSN 2096-3246

CN 51-1773/TB

CODEN GKYJAD

Advanced Engineering Sciences

工程科学与技术

· 滑坡堰塞湖灾害机理与防控 特约稿 ·

杨兴国 冰碛土滑坡—泥石流—堰塞湖灾害链发展过程机理与模拟技术研究构想

2022 3 第54卷 第3期
Vol.54 No.3

主办单位：四川大学

· 滑坡堰塞湖灾害机理与防控 ·

栏目主编 周家文

特约稿

冰融土滑坡—泥石流—堰塞湖灾害链发展过程机理与模拟技术研究构想

杨兴国, 曹志翔, 邢会歌, 金建立, 李海波, 范刚, 叶飞, 闫旭峰 1

研究论文

堰塞坝背水面坡度对溃决过程影响机理大尺度试验 黄卫, 齐子杰, 段文刚, 汪利先, 李利, 於思瀚 14

基于耦合信息量法选择负样本的区域滑坡易发性预测 周晓亭, 黄发明, 吴伟成, 周创兵, 曾诗怡, 潘李含 25

基于两相双质点MPM的滑坡堵江灾害链生全过程分析 杜文杰, 盛谦, 杨兴洪, 魏鹏飞, 李丽华, 付晓东 36

基于直剪试验的堆积碎石类材料细观参数标定方法及模拟验证 杨文剑, 刘怀忠, 谢红强, 肖明砾, 卓莉 46

· 网络空间安全 ·

基于关键点的混合式漏洞挖掘测试用例同步方法 赵磊, 辉涛, 蒋可洋, 曹彭程 55

时控性加密的匿名查询机制构造 袁科, 王籽霖, 杜展飞, 贺新征, 贾春福, 何源 64

高效的无证书云数据审计方案 杨海滨, 李瑞峰, 李秀广, 袁文勇, 易铮阁, 杨晓元 72

基于CNN和犹豫模糊决策的欺诈攻击检测 蔡红云, 袁世林, 温玉, 任继超, 孟洁 80

基于EBLOF算法的攻击者IP分析系统及应用 范敏, 李昌茂, 陈飞宇, 陈超一 91

· 水利与土木工程 ·

螺栓连接装配式墙板抗侧刚度研究 熊峰, 王兆强, 冉明明, 陈江, 赵福超, 钟亚超 98

微观尺度下州桥遗址土干缩劣化机理分析 岳建伟, 黄轩嘉, 赵丽敏, 王自法 109

改性多孔沥青混合料水稳定性与损伤规律 孙斌祥, 姜奕, 沈航, 黄尹泰, 童玉英 120

基于Galerkin法的新型波形钢腹板箱梁桥动力特性研究 冀伟, 温凯康, 罗奎 131

大跨度钢箱梁斜拉桥钢-UHPC组合桥面加固效果评估 秦世强, 张佳斌, 黄春雷, 高立强 139

软土地层浅埋盾构施工的精细化数值模拟 曹洋, 林向荣, 李子路 149

富水构造区圆形隧道抗突体最小安全厚度解析解 肖前丰, 李文龙, 符文熹, 文丽娜, 袁星宇, 叶飞 159

环境温度对SMA-LRB隔震桥梁地震响应的影响 石岩, 成昭, 王浩浩, 刘云帅, 王文仙, 裴银海 169

复式不锈钢管高强再生块体混凝土短柱轴压试验研究 王卫华, 陈子健, 蔡敏伟, 董毓利 180

移动荷载下梁索组合结构瞬态响应分析 纪键铤, 王荣辉, 马牛静, 余贤宾, 陈木 192

基于数值模拟的矩形明渠床面切应力分析 黄宇航, 周晓泉, 周文桐, 姚畅, 周芳龄 201

· 机械工程 ·

基于滚动轴承故障诊断的类间排斥松弛判别迁移学习 李锋, 王腾, 汤宝平, 田大庆 209

螺纹结构精确有限元建模及有效性分析 李九一, 周丰峻, 张麇, 孙云厚, 雷志刚, 朱精忠 220

· 信息工程 ·

相关性视觉对抗贝叶斯个性化排序推荐模型 李广丽, 卓建武, 许广鑫, 李传秀, 吴光庭, 张红斌 230

征稿简则

封三

[期刊基本参数] CN51-1173/TB * 1957 * b * A4 * 240 * zh * P * ¥ 20.00 * 1200 * 24 * 2022-05

本期责任编辑: 李轶楠 英文校订: 江成发, 林鹏智, 刘艳丽, 张泽天

出版日期 · 2022年05月20日 ·

编辑: 张凌之, 黄小川, 张琼, 赵婧, 李轶楠, 吴芝明

· MECHANISM OF LANDSLIDE-DAMMED LAKE AND ITS CONTROL ·

Column Editor ZHOU Jiawen

Invited Contribution

Research Framework of the Program: Dynamic Evolution Mechanism and Simulation of Moraine Landslide—Debris Flow—Dammed Lake Disaster Chain YANG Xingguo, CAO Zhixiang, XING Huige, JIN Jianli, LI Haibo, FAN Gang, YE Fei, YAN Xufeng 1

Research Paper

Large-scale Experiment on Impact of Downstream Slope on Breaching Mechanisms of Landslide Dams HUANG Wei, QI Zijie, DUAN Wengang, WANG Lixian, LI Li, YU Sihan 14

Regional Landslide Susceptibility Prediction Based on Negative Sample Selected by Coupling Information Value Method ZHOU Xiaoting, HUANG Faming, WU Weicheng, ZHOU Chuangbing, ZENG Shiyi, PAN Lihan 25

Chain Generation Process of Landslide Blocking River Based on Two-phase Double-point Material Point Method DU Wenjie, SHENG Qian, YANG Xinghong, WEI Pengfei, LI Lihua, FU Xiaodong 36

Mesosopic Parameter Calibration Method of Accumulated Debris Materials Based on Direct Shear Test and Simulation Verification YANG Wenjian, LIU Huaizhong, XIE Hongqiang, XIAO Mingli, ZHUO Li 46

· CYBERSPACE SECURITY ·

Testcase Synchronization Method for Hybrid Fuzzing Based on Keypoints ZHAO Lei, HUI Tao, JIANG Keyang, CAO Pengcheng 55

Anonymous Query Mechanism Construction of Timed-Release Encryption YUAN Ke, WANG Zilin, DU Zhanfei, HE Xinzheng, JIA Chunfu, HE Yuan 64

Efficient Certificateless Cloud Data Auditing Scheme YANG Haibin, LI Ruifeng, LI Xiuguang, YUAN Wenyong, YI Zhengge, YANG Xiaoyuan 72

Shilling Attacks Detection Based on CNN and Hesitant Fuzzy Sets CAI Hongyun, YUAN Shilin, WEN Yu, REN Jichao, MENG Jie 80

Attacker's IP Analysis System Based on EBLOF Algorithm and Application FAN Min, LI Changmao, CHEN Feiyu, CHEN Chaoyi 91

· HYDRAULIC & CIVIL ENGINEERING ·

Lateral Stiffness of Bolted Prefabricated Concrete Wall XIONG Feng, WANG Zhaoqiang, RAN Mingming, CHEN Jiang, ZHAO Fuchao, ZHONG Yachao 98

Micro-scale Analysis of Dry-shrinkage Deterioration Mechanism of Zhouqiao Earthen Soil YUE Jianwei, HUANG Xuanjia, ZHAO Limin, WANG Zifa 109

Moisture Stability and Damage Law of Modified Porous Asphalt Mixture SUN Binxiang, JIANG Yi, SHEN Hang, HUANG Yintai, TONG Yuying 120

Dynamic Characteristics of New Type Composite Box Girder Bridge with Corrugated Steel Webs Based on Galerkin Method JI Wei, WEN Kaikang, LUO Kui 131

Evaluation of Reinforcement Effect of Steel-UHPC Composite Deck for Long-span Steel Box Girder Cable-stayed Bridge QIN Shiqiang, ZHANG Jiabin, HUANG Chunlei, GAO Liqiang 139

Refined Numerical Simulation of Shallow Shield Construction in Soft Soil Stratum CAO Yang, LIN Xiangrong, LI Zilu 149

Analytical Solution to the Minimum Safe Thickness of Circular Tunnel Anti-inrushing Structure in Water-rich Area XIAO Qianfeng, LI Wenlong, FU Wenxi, WEN Lina, YUAN Xingyu, YE Fei 159

Influence of Ambient Temperature on Seismic Response of SMA-LRB Isolated Bridge SHI Yan, CHENG Zhao, WANG Haohao, LIU Yunshuai, WANG Wenxian, PEI Yin Hai 169

Experimental Investigation on Composite-sectioned Stainless CFST Stub Columns Filled with High Strength Demolished Concrete Lumps Under Axial Compression WANG Weihua, CHEN Zijian, CAI Minwei, DONG Yuli 180

Transient Response Analysis of Cable-beam Structural System Under Moving Load JI Jianyi, WANG Ronghui, MA Nuijing, YU Xianbin, CHEN Mu 192

Numerical Analysis of Bed Shear Stress of a Rectangular Open Channel HUANG Yuhang, ZHOU Xiaoquan, ZHOU Wentong, YAO Chang, ZHOU Fangling 201

· MECHANICAL ENGINEERING ·

Inter-class Repulsive Slack Discriminant Transfer Learning Based on Rolling Bearing Fault Diagnosis LI Feng, WANG Teng, TANG Baoping, TIAN Daqing 209

Accurate Finite Element Modeling and Validity Analysis of Thread Structure LI Jiuyi, ZHOU Fengjun, ZHANG Ao, SUN Yunhou, LEI Zhigang, ZHU Jingzhong 220

· INFORMATION ENGINEERING ·

Correlation Visual Adversarial Bayesian Personalized Ranking Recommendation Model LI Guangli, ZHUO Jianwu, XU Guangxin, LI Chuanxiu, WU Guangting, ZHANG Hongbin 230