

· 聚焦国家重点研发计划 ·

青藏高原重大滑坡动力灾变与风险防控关键技术研究 邓建辉, 戴福初, 文宝萍, 姚鑫 1

· 水利与土木工程 ·

带连廊的相邻建筑基础隔震改造碰撞危险性分析 戴靠山, 罗翔, 吕洋, 张世明 9

以前期水量为条件的管运洪水推求 覃光华, 曹冷然, 王文圣, 丁晶, 李深奇, 姚瑞虎 17

均质黏性土坝漫顶溃决机理及溃坝过程模拟 钟启明, 陈生水, 梅世昂 25

小口径钢管桩修复加固拦砂坝坝基土的技术方法研究 石胜伟, 刘建康, 蔡强, 周路旭 33

小样本观测资料条件下的耿贝尔极值水文频率分析模型 钱龙霞, 王红瑞, 张韧, 焦志倩 41

鱼脊型水石分离结构对泥石流的物质与能量调控效果试验研究 谢湘平, 韦方强, 王小军, 杨红娟 49

基于黏结单元力学参数随机赋值的压力隧洞衬砌水力劈裂分析 陈国龙, 郜会彩, 胡云进 60

震后泥石流沟内滑坡堰塞坝的侵蚀特征分析——以银洞子堰塞坝为例 赵高文, 王萌, 杨宗佑, 田宏岭, 姜元俊 68

一种新型螺栓连接预制剪力墙抗震性能分析 李万润, 向荣江, 杜永峰 78

基于抗崩解特性的全风化花岗岩地层注浆参数设计方法 张健, 李召峰, 李术才, 张庆松, 杨磊, 齐延海, 李恒天, 都君琪 87

四边简支带抗剪键双向叠合板的力学性能分析 李明, 王浩然, 赵唯坚 96

深部沿空切顶成巷围岩稳定性控制对策 陈上元, 何满潮, 郭志飏, 陈辉, 杨军, 王炯 107

考虑粗糙度影响的不同土与混凝土界面大型直剪试验研究 成浩, 王恒, 张家生, 刘乔, 刘稳鹤 117

基于 LMD-SVD 的微震信号降噪方法研究 董林鹭, 蒋若辰, 徐奴文, 钱波 126

山区河流水位流量关系曲线研究 罗铭, 丁锐, 黄尔, 范念念 137

· 机械工程 ·

斜齿轮传动的啮合刚度计算及其主共振分析 石慧荣, 赵冬艳, 李宗刚 143

组合核 RVM 与 EEMD 信息熵的机械设备可靠度评估与预测 陈法法, 杨蕴鹏, 汤宝平, 肖文荣, 陈保家, 张发军 149

欠驱动张拉整体并联机构的运动学求解方法 朱伟, 李寒冰, 王传伟, 顾开荣 157

基于多向交流电位降技术的管道裂纹腐蚀检测方法 李文洋, 甘芳吉, 周永杰, 何晓明 165

· 信息工程 ·

认知无线网络中基于接收信号强度的组密钥提取方案 许力, 林如珊, 周赵斌 170

一种提升 3 维重建精度和效率的图像选择方法 王莹, 徐振宇, 郑豫楠, 史雪蕾, 刘怡光 178

· 化学工程与材料工程 ·

Sn 的掺杂对 Ce-Mn/AC 催化剂脱硝活性及抗硫性能的影响 黄利华, 李雪, 华坚 185

复相凝水膨胀材料充填性能影响因素实验研究 兰文涛, 吴爱祥, 王盼明 192

废玻璃粉混凝土力学性能研究 李松, 焦楚杰, 甘元初 199

征稿简则 206

[期刊基本参数] CN51-1773/TB * 1957 * b * A4 * 208 * zh * P * ¥20.00 * 1200 * 25 * 2019-09

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: 2019 年 09 月 20 日

编辑: 张凌之, 黄小川, 张琼, 赵婧, 李轶楠

· FOCUS ON STATE KEY RESEARCH DEVELOPMENT PROGRAM OF CHINA ·

Investigation on the Catastrophic Mechanism and Risk Control Measures of Major Landslides in Tibetan Plateau	DENG Jianhui, DAI Fuchu, WEN Baoping, YAO Xin	1
--	---	---

· HYDRAULIC & CIVIL ENGINEERING ·

Collision Risk Analysis of Base-isolation Retrofitted Adjacent Buildings Connected by a Corridor Bridge	DAI Kaoshan, LUO Xiang, LYU Yang, ZHANG Shiming	9
Calculation of Manage-flood Based on the Previous Flood Volume	QIN Guanghua, CAO Lingran, WANG Wensheng, DING Jing, LI Shenqi, YAO Ruihu	17
Breach Mechanism and Breach Process Simulation of Homogeneous Cohesive Earthen Dam Due to Overtopping	ZHONG Qiming, CHEN Shengshui, MEI Shiang	25
Research of Small Caliber Steel Pipe Piles to Reinforce the Foundation of Check Dam and Prevent it from Scouring by Debris Flow	SHI Shengwei, LIU Jiankang, CAI Qiang, ZHOU Luxu	33
Gumbel Extreme Hydrological Frequency Analysis Model in Situations of Insufficient Data	QIAN Longxia, WANG Hongrui, ZHANG Ren, JIAO Zhiqian	41
Regulation Effect of Herringbone Water-sediment Separation Structure on the Substance and Energy Properties of Debris Flow	XIE Xiangping, WEI Fangqiang, WANG Xiaojun, YANG Hongjuan	49
Hydraulic Fracturing Analysis of Pressure Tunnel Lining Based on Random Assignment of Mechanical Parameters of Cohesive Element	CHEN Guolong, GAO Huicai, HU Yunjin	60
Eroding Characteristics of Landslide Dams in Debris Flow Gullies After Earthquakes—Case Study of Yindongzi Landslide Dam	ZHAO Gaowen, WANG Meng, YANG Zongji, TIAN Hongling, JIANG Yuanjun	68
Seismic Performance of a New Precast Concrete Shear Wall with Bolt Connection	LI Wanrun, XIANG Rongjiang, DU Yongfeng	78
Grouting Parameters Design Method of Completely Weathered Granite Based on Anti-disintegration Characteristics	ZHANG Jian, LI Zhaoqiang, LI Shucai, ZHANG Qingsong, YANG Lei, QI Yanhai, LI Hengtian, DU Junqi	87
Analysis of Mechanical Properties of Four-sided Simple Supported Two-way Laminated Slab with Shear Keys	LI Ming, WANG Haoran, ZHAO Weijian	96
Control Countermeasures of Surrounding Rock in Deep Gob-side Entry Retaining by Cutting Roof	CHEN Shangyuan, HE Manchao, GUO Zhibiao, CHEN Hui, YANG Jun, WANG Jiong	107
Large-scale Direct Shear Tests of Interfaces Between Different Soils and Concrete Considering Roughness Effect	CHENG Hao, WANG Xuan, ZHANG Jiasheng, LIU Qiao, LIU Wenque	117
Research on Microseismic Signal Denoising Method Based on LMD-SVD	DONG Linlu, JIANG Ruochen, XU Nuwen, QIAN Bo	126
Study on Stage-discharge Relationship Curve in Mountain Rivers	LUO Ming, DING Rui, HUANG Er, FAN Niannian	137

· MECHANICAL ENGINEERING ·

Meshing Stiffness Calculation and Main Resonance Analysis of Helical Gear Transmission	SHI Huirong, ZHAO Dongyan, LI Zonggang	143
Assessment and Prediction of Mechanical Equipment Reliability Based on Combined Kernel Relevance Vector Machine and EEMD Information Entropy	CHEN Fafa, YANG Yunpeng, TANG Baoping, XIAO Wenrong, CHEN Baojia, ZHANG Fajun	149
Kinematics Solving Method of a Tensegrity Parallel Mechanism Under Actuated	ZHU Wei, LI Hanbing, WANG Chuanwei, GU Kairong	157
Crack Corrosion of Pipeline Detection Based on Multidirectional Alternating Current Potential Drop Technology	LI Wenyang, GAN Fangji, ZHOU Yongjie, HE Xiaoming	165

· INFORMATION ENGINEERING ·

Group Secret Key Extraction Scheme Based on Received Signal Strength in Cognitive Radio Networks	XU Li, LIN Rushan, ZHOU Zhaobin	170
An Image Selection Method for Efficient and Accurate 3D Scene Reconstruction	WANG Ying, XU Zhenyu, ZHENG Yunan, SHI Xuelei, LIU Yiguang	178

· CHEMICAL ENGINEERING & MATERIAL ENGINEERING ·

Effect of Sn Doping on Denitrification and Sulfur Resistance Performance of Ce-Mn/AC Catalyst	HUANG Lihua, LI Xue, HUA Jian	185
Experimental Study on Factors Affecting the Filling Performance of Composite Condensate Expansion Materials	LAN Wentao, WU Aixiang, WANG Yiming	192
Study on Mechanical Properties of Waste Glass Powder Concrete	LI Song, JIAO Chujie, GAN Yuanchu	199