

地震工程学报

DIZHEN GONGCHENG XUEBAO

第 46 卷 第 3 期 2024 年 5 月

目次

地震工程

- 陕西渭北晚更新世黄土-古土壤结合水膜厚度的试验研究 井彦林, 何椿霖, 赵宏宇, 冯雅茜, 明心凯, 黄月 (501)
- 基于高斯过程模型的桥梁时变系统地震易损性分析 万华平, 彭紫鑫, 卫志成, 陈昊, 苏雷 (511)
- 安哥拉红砂现场试坑浸水试验研究 乔建伟, 刘争宏, 夏玉云, 王冉, 唐立军 (521)
- 双磁场控制的磁流变减震结构振动台试验研究 周亚东, 张恒, 张彦, 刘双菊, 葛爱迪 (529)
- 青藏高原东南三江流域黄土类堆积体斜坡地震作用下的动力响应试验研究——以四川巴塘下归洼滑
坡为例 唐学武, 王晨, 郭明珠, 陈学良, 曾金艳, 张合, 王志颖 (536)
- 考虑周期折减的结构弹性时程分析调整方法 吴克川, 陶忠, 潘文, 兰香, 余文正, 张龙飞 (548)
- 木质素抑制黄土湿陷性试验研究 刘伟, 连佳胜, 赵吉祥 (557)
- 单体建筑无筋砌体加固体系的抗震韧性研究 魏淑静, 杨中宣 (566)
- 锚定板浅基础桥台抗震性能参数影响分析 杨张能, 陈兴冲, 马华军, 王义, 鲁锦华 (575)
- 基于等损伤的主余震序列型地震动 PGA 放大系数谱研究 雍飞, 公茂盛, 杨游 (584)
- 基于局部测点模态测试的简支梁桥承载刚度评定试验研究 亓圣, 施晓, 亓兴军, 王宁宁, 曹三鹏, 王珊珊 (593)
- 分层土-隧道相互作用体系地震响应分析 张存, 郑文, 罗凯凯, 路沙沙 (602)
- 基于广义反演法的不同位置地震引起盆地放大效应的研究——以仙台盆地为例 王棣隽, 刘启方 (614)
- 椭圆空洞对盾构隧道地震易损性曲线影响研究 魏懿, 黄蔚, 顾翔, 肖桂元, 于啸波 (625)
- 木钙对兰州黄土水理性质的影响 王沈力, 李晓龙, 刘辰麟, 刘东发 (637)
- 基于概率地震需求模型的兰新高铁桥梁近断层地震易损性分析 康林, 崔佳伟, 严武建, 车爱兰 (644)
- 主余震作用下塔尔寺中心大塔响应研究 张建钰, 石玉成, 刘琨, 刘北, 李韬, 池佩红 (655)

地震研究

低成本地磁场监测设备的设计与实现	孙路强, 张明东, 康健, 刘建波 (665)
链式海底地震仪节点结构设计与试验 .....	.....
.....	张川, 周建平, 阮爱国, 翁利春, 段磊, 曾锦锋, 陈宁特 (672)
2022年1月8日青海门源6.9级强地震动模拟研究	师涵博, 张元生 (680)
2021年青海玛多 $M_s7.4$ 地震前后CO异常变化研究	史延飞, 辛存林, 梁浩东, 刘海博 (692)
甘肃及邻区基于地震预警参数 τ_c 和 P_a 的震级快速计算模型研究 .....	.....
.....	柴文锐, 郭晓, 张璇, 杜建清, 张磊, 张卫东, 蒲举 (703)
一种基于PPNet的地震直达P波到时拾取方法	季倪宏, 李钢, 张玲, 罗勇, 黄金刚 (714)
基于多尺度注意残差网络的地震波形分类研究	王梦琪, 黄汉明, 吴业正, 王鹏飞 (724)
基于线性密集台阵的2023年甘肃积石山 $M_s6.2$ 地震断层低速带研究 .....	.....
.....	吴柏辰, 秦满忠, 郭晓, 王亚红, 孙点峰, 温淑琳 (734)
基于PSO-ELM的地震死亡人员评估方法研究	赵煜, 韩旭昊, 孙艳萍, 史一彤, 陈文凯 (742)
.....
第16个全国防灾减灾日——人人讲安全 个个会应急	(664)

CHINA EARTHQUAKE ENGINEERING JOURNAL

Vol. 46 No. 3 May, 2024

CONTENTS

- Experimental study on the bound water film thickness of Late Pleistocene loess-paleosol in the Weibei region of Shaanxi
..... JING Yanlin, HE Chunlin, ZHAO Hongyu, FENG Yaxi, MING Xinkai, HUANG Yue (501)
- Seismic fragility analysis of the time-varying system of a bridge with a Gaussian process model
..... WAN Huaping, PENG Zixin, WEI Zhicheng, CHEN Hao, SU Lei (511)
- Field immersion test on the Angora red sand
..... QIAO Jianwei, LIU Zhenghong, XIA Yuyong, WANG Ran, TANG Lijun (521)
- Shaking table test on a magnetorheological damping structure controlled by dual magnetic fields
..... ZHOU Yadong, ZHANG Heng, ZHANG Yan, LIU Shuangju, GE Aidi (529)
- Experimental study on the dynamic response of accumulation slopes under earthquake action in Three-rivers Basin,
southeast Tibetan Plateau: a case study of the Xiaguiwa landslide in Batang, Sichuan Province
..... TANG Xuewu, WANG Chen, GUO Mingzhu, CHEN Xueliang, ZENG Jinyan, ZHANG He, WANG Zhiying (536)
- Adjustment method for elastic time-history analysis of structures considering period reduction
..... WU Kechuan, TAO Zhong, PAN Wen, LAN Xiang, YU Wenzheng, ZHANG Longfei (548)
- Collapsibility test on the loess inhibited by lignin LIU Wei, LIAN Jiasheng, ZHAO Jixiang (557)
- Seismic resilience of the reinforcement system of unreinforced masonry in an individual building
..... WEI Shujing, YANG Zhongxuan (566)
- Parameter influence on the seismic behavior of shallow foundation abutments with anchor plates
..... YANG Zhangneng, CHEN Xingchong, MA Hua jun, WANG Yi, LU Jinhua (575)
- PGA amplification factor spectrum of mainshock-aftershock sequence-type ground motions based on equal damage ...
..... YONG Fei, GONG Maosheng, YANG You (584)
- Experimental study on the load-bearing stiffness assessment of simply supported girder bridges based on modal tests of
local measurement points
..... QI Sheng, SHI Xiao, QI Xingjun, WANG Ningning, CAO Sanpeng, WANG Shanshan (593)
- Seismic response of layered soil-tunnel interaction system
..... ZHANG Cun, ZHENG Wen, LUO Kaikai, LU Shasha (602)
- Basin amplification effect caused by earthquakes at different locations based on the generalized inversion method: a case
study of Sendai Basin WANG Yanjun, LIU Qifang (614)
- Seismic vulnerability curves of shield tunnels influenced by adjacent elliptical cavity
..... WEI Yi, HUANG Wei, GU Xiang, XIAO Guiyuan, YU Xiaobo (625)
- Influence of calcium lignosulfonate on the hydrological properties of Lanzhou loess
..... WANG Shenli, LI Xiaolong, LIU Chenlin, LIU Dongfa (637)
- Vulnerability analysis of Lanzhou—Urumqi high-speed railway bridges under near-fault earthquakes based on the
probabilistic seismic demand model KANG Lin, CUI Jiawei, YAN Wujian, CHE Ailan (644)

Response of the central pagoda of the Ta'er Temple under mainshock-aftershock sequence .....	.....
.....	<i>ZHANG Jianyu, SHI Yucheng, LIU Kun, LIU Bei, LI Tao, CHI Peihong</i> (655)
Low-cost geomagnetic field monitoring equipment: design and implementation .....	.....
.....	<i>SUN Luqiang, ZHANG Mingdong, KANG Jian, LIU Jianbo</i> (665)
Structural design and experiments of cabled ocean-bottom seismometer nodes .....	.....
.....	<i>ZHANG Chuan, ZHOU Jianping, RUAN Aiguo, WENG Lichun, DUAN Lei, ZENG Jinfeng, CHEN Ningte</i> (672)
Strong ground motion simulation of the Qinghai $M_6.9$ earthquake on January 8, 2022 .....	.....
.....	<i>SHI Hanbo, ZHANG Yuansheng</i> (680)
CO anomalies before and after the 2021 Maduo $M_5.7.4$ earthquake in Qinghai Province .....	.....
.....	<i>SHI Yanfei, XIN Cunlin, LIANG Haodong, LIU Haibo</i> (692)
Fast magnitude estimation model for Gansu and adjacent regions based on earthquake early warning parameters τ_c and P_d .....	.....
.....	<i>CHAI Wenrui, GUO Xiao, ZHANG Xuan, DU Jianqing, ZHANG Lei, ZHANG Weidong, PU Ju</i> (703)
A picking method of direct seismic P-wave arrival time based on PPNet .....	.....
.....	<i>JI Nihong, LI Gang, ZHANG Ling, LUO Yong, HUANG Jin'gang</i> (714)
Seismic waveform classification based on a multiscale attention residual network .....	.....
.....	<i>WANG Mengqi, HUANG Hanming, WU Yezheng, WANG Pengfei</i> (724)
Low-velocity fault zone of the 2023 Jishishan Gansu $M_5.6.2$ earthquake based on linear dense array data .....	.....
.....	<i>WU Baichen, QIN Manzhong, GUO Xiao, WANG Yahong, SUN Dianfeng, WEN Shulin</i> (734)
Method for estimating earthquake casualties based on PSO-ELM .....	.....
.....	<i>ZHAO Yu, HAN Xuhao, SUN Yanping, SHI Yitong, CHEN Wenkai</i> (742)