

地震工程学报

DIZHEN GONGCHENG XUEBAO

第 43 卷 第 5 期 2021 年 9 月

目 次

地震研究

- 西秦岭北缘断裂带土壤气定点监测与初步结果分析 高曙德, 赵洁, 王爱国, 张向红, 曹玲玲, 张昱, 武善艺, 苏小忠, 杨超 (1001)
- 河北及周边地区岩石圈磁场变化及震前异常特征 赵慧琴, 张海洋, 李博, 王朝景, 刘德强, 毛丰龙 (1008)
- 地下流体台网(天津)基础资料综合管理系统研制与应用 王建国, 刘春国, 张彬, 高小其, 刘耀炜 (1014)
- 新疆地区区域应力场特征及强震间库仑应力变化探讨 刘方斌, 古丽孜娜提·依德热斯, 曲均浩 (1024)
- 九寨沟 M_{S} 7.0 地震前地磁异常 宋成科 (1037)
- 甘加盆地西缘断裂带发现新活动证据 陆诗铭, 王爱国, 文亚猛, 张波 (1045)
- 汶川地震频次场异常特征分析 马禾青, 杨明芝, 罗国富 (1054)
- 雁列断层应力场影响因素数值模拟分析 王时, 张环曦, 周安聘, 董博, 章阳, 纪春玲 (1062)
- 载荷变化对涉县台垂直摆干扰研究 张英杰, 马栋, 赵长红, 江永建, 李晓鹏, 李玉国, 王彬 (1072)
- 河北无极井同震响应特征分析 董博, 纪春玲, 周安聘, 张环曦, 赵雨晨, 李凤, 章阳, 王时 (1077)
- 奉节钻孔应变前兆异常机理分析——区域应力场应力传递的结果 龚丽文, 陈丽娟, 郭卫英, 陈涛, 唐小勇 (1087)
- 综合地球物理方法在山前隐伏断裂探测中的应用——以巍山—长山南坡断裂为例 赵建明, 李明, 费书民, 张志相, 高嘉琳 (1095)
- 利用宁波水文地质监测井网建设地下流体前兆台阵的试验研究 李慧峰, 钟羽云, 李志海, 袁宝珠, 李蒙 (1103)
- 山地小城市避震疏散通道通行能力评估及选择研究——以昆明东川城区为例 马程伟, 王培茗, 张堃 (1112)
- 仙游井水位在 2017 年 7 月打井干扰前后频带响应的特性变化 樊俊屹, 刘春国, 陶志刚 (1123)

地震工程

- 季冻区砂性土堤防水分场温度场及水分迁移试验研究 黄荣富, 张宝磊, 史翰超 (1129)
- 考虑卸荷变形模量的坑底回弹变形计算方法 陈晓, 董建华, 董和平, 汤小林, 田文通 (1134)

- 季节冻土区土钉支护边坡地震反应动力特性分析 陈 兵, 吴晓磊, 董建华, 何鹏飞 (1142)
- 大型振动台试验花岗岩相似材料配比研究 吕 艳, 刁钰恒, 周泽华, 柴少峰, 王剑昆, 王祚鹏, 苏生瑞 (1150)
- 基于 SOILQUAKE 软件方法的厚层淤泥场地设防地震动参数确定探讨 夏 峰 (1160)
- 基于 IDA 的套箍加固拱上立柱抗震性能评估 唐 堂, 钱永久, 王 磊 (1168)
- 金属橡胶支座剪切性能试验研究 杜 骞, 夏修身 (1176)
- 基于实测记录分析场地因素对海底地震动特性影响 陈宝魁, 王博为, 田 钦, 胡思聪 (1183)
- 试样厚度对室内测定黄土湿陷性指标的影响 王丽琴, 刘 鑫, 王 正, 李 仓, 狄圣杰, 李凯宇 (1190)
- FRC 框架结构的损伤程度控制及性能评估 陆婷婷, 梁兴文 (1197)
- 不同加载方式下黄土累积变形特征研究 车高凤, 钟秀梅, 马金莲, 柴少峰, 王 平 (1208)
- 基于 WAMP 的地震科普信息数据库发布系统设计与实现 李志恒, 金 兴, 李 红, 刘承雨, 张慧峰, 于江薇 (1214)
- 强震作用下坡顶建筑荷载对边坡稳定性影响研究 李旭东, 王 平, 王丽丽, 王会娟, 常文斌, 钱紫玲 (1220)
- 非饱和黄土动力液化研究——以党家岔滑坡为例 张子东, 张晓超, 任 鹏, 崔雪婷 (1228)
- 压实度对脱硫石膏动强度和动孔压影响试验 谭 彩, 万 里, 袁明道, 卢 博, 杨文滨 (1238)
- 基于耐震时程法的进水塔结构抗震性能分析 赵 杰, 杨 杰, 李晓娜 (1244)

CHINA EARTHQUAKE ENGINEERING JOURNAL

Vol. 43 No. 5 September, 2021

CONTENTS

- Preliminary analysis results of fixed-point monitoring on soil gas along the northern margin fault of West Qinling ...
..... GAO Shuode, ZHAO Jie, WANG Aiguo, ZHANG Xianghong, CAO Lingling, (1001)
..... ZHANG Yu, WU Shanyi, SU Xiaozhong, YANG Chao
- Variation and pre-seismic anomaly characteristics of the lithospheric magnetic field in Hebei Province and its surrounding areas ZHAO Huiqin, ZHANG Haiyang, LI Bo, WANG Zhaojing, LIU Deqiang, MAO Fenglong (1008)
- Development and application of an integrated management system for basic data of underground fluid network in Tianjin WANG Jianguo, LIU Chunguo, ZHANG Bin, GAO Xiaoqi, LIU Yaowei (1014)
- Characteristics of regional stress field and static Coulomb stress changes among strong earthquakes in Xinjiang area LIU Fangbin, Gulizinati Yideresi, QU Junhao (1024)
- Geomagnetic anomalies prior to the Jiuzhaigou $M_S 7.0$ earthquake in 2017 SONG Chengke (1037)
- Evidence of new activities along the western margin fault zone of the Ganjia Basin LU Shiming, WANG Aiguo, WEN Yameng, ZHANG BO (1045)
- Characteristics of frequency field anomalies before the Wenchuan earthquake in 2018 MA Heqing, YANG Mingzhi, LUO Guofu (1054)
- Simulation study on the influencing factors of stress field in echelon fault WANG Shi, ZHANG Huanxi, ZHOU Anpin, DONG Bo, ZHANG Yang, JI Chunling (1062)
- Interference of load variation on the vertical pendulum observation at Shexian seismic station ZHANG Yingjie, MA Dong, ZHAO Changhong, (1072)
..... JIANG Yongjian, LI Xiaopeng, LI Yuguo, WNAG Bin
- Co-seismic response characteristics of Wuji well in Hebei Province DONG Bo, JI Chunling, ZHOU Anpin, ZHANG Huanxi, (1077)
..... ZHAO Yuchen, LI Feng, ZHANG Yang, WANG Shi
- Mechanism of borehole strain precursor anomaly at Fengjie station: results from stress transfer in regional stress field GONG Liwen, CHEN Lijuan, GUO Weiyi, CHEN Tao, TANG Xiaoyong (1087)
- Application of integrated geophysical methods in detection of piedmont buried faults: a case study of the Weishan—Changshan south slope fault ... ZHAO Jianming, LI Ming, FEI Shumin, ZHANG Zhixiang, GAO Jialin (1095)
- Experimental study on the construction of underground fluid precursor array with Ningbo hydrogeological monitoring well network LI Huifeng, ZHONG Yuyun, LI Zihai, YUAN Baozhu, LI Meng (1103)
- Traffic capacity assessment and selection of earthquake evacuation routes in small mountainous cities: a case study of Dongchuan urban area MA Chengwei, WANG Peiming, ZHANG Kun (1112)
- Frequency band response characteristics of Xianyou well water level before and after drilling disturbance in July 2017 FAN Junyi, LIU Chunguo, TAO Zhigang (1123)
- Water migration test on the moisture field and temperature field of sandy soil embankments in seasonal frozen area HUANG Rongfu, ZHANG Baolei, SHI Hanchao (1129)
- Calculation methods for rebound deformation of foundation pit bottom considering unloading deformation modulus CHEN Xiao, DONG Jianhua, DONG Heping, TANG Xiaolin, TIAN Wentong (1134)

Dynamic characteristics of seismic response of soil nailed slopes in seasonal frozen areas	CHEN Bing, WU Xiaolei, DONG Jianhua, HE Pengfei (1142)
Proportion of granite similar material used in large-scale shaking table tests	LÜ Yan, DIAO Yuheng, ZHOU Zehua, CHAI Shaofeng, WANG Jiankun, WANG Zuopeng, SU Shengrui (1150)
Determination of ground motion parameters for the thick silt site based on SOILQUAKE software method	XIA Feng (1160)
Seismic performance of spandrel columns strengthened by jackets based on the incremental dynamic analysis	TANG Tang, QIAN Yongjiu, WANG Lei (1168)
Experimental study on shear behavior of metal rubber bearings	DU Qian, XIA Xiushen (1176)
Effect of site factors on the characteristics of offshore ground motions based on strong motion observation records	CHEN Baokui, WANG Bowei, TIAN Qin, HU Sicong (1183)
Influence of specimen thickness on laboratory determination of loess collapsibility indexes	WANG Liqin, LIU Xin, WANG Zheng, LI Lun, DI Shengjie, LI Kaiyu (1190)
Seismic performance evaluation and damage degree control of fiber reinforced concrete frame structures	LU Tingting, LIANG Xingwen (1197)
Accumulative deformation characteristics of loess under different loading modes	CHE Gaofeng, ZHONG Xiumei, MA Jinlian, CHAI Shaofeng, WANG Ping (1208)
Design and implementation of the publishing system for WAMP-based earthquake science information database	LI Zhiheng, JIN Xing, LI Hong, LIU Chengyu, ZHANG Hufeng, YU Jiangwei (1214)
Influence of top building load on the slope stability under strong earthquakes	LI Xudong, WANG Ping, WANG Lili, WANG Huijuan, CHANG Wenbin, QIAN Ziling (1220)
Dynamic liquefaction of unsaturated loess: a case study of Dangjiacha landslide	ZHANG Zidong, ZHANG Xiaochao, REN Peng, CUI Xueteng (1228)
Experimental study of the influence of compaction degree on dynamic strength and dynamic pore pressure of desulfurization gypsum	TAN Cai, WAN Li, YUAN Mingdao, LU Bo, YANG Wenbin (1238)
Seismic performance of intake tower structures based on endurance time method	ZHAO Jie, YANG Jie, LI Xiaona (1244)