

全国中文核心期刊
中国科技核心期刊
中国科学引文数据库核心期刊

ISSN 1000-0844
CODEN: XDIXEF

地震工程学报

CHINA EARTHQUAKE ENGINEERING JOURNAL

(原《西北地震学报》)

第35卷 第1期
Vol. 35 No.1

2013.1

ISSN 1000-0844



9 771000 084000



中国地震学会
中国土木工程学会

DIZHEN GONGCHENG XUEBAO

第35卷 第1期 2013年3月

目 次

《地震工程学报》改刊词(中、英文)..... 谢礼立

地震工程

- 饱和黄土地场液化的工程初判和详判指标与方法研究 王兰民,袁中夏,汪国烈 (1)
考虑填土侧向变形的地震土压力计算方法 张建民,宋 飞 (9)
循环往复加载的地下结构 Pushover 分析方法及其在地震损伤分析中的应用
..... 刘晶波,王文晖,赵冬冬,等 (21)
施工过程中隔震层钢筋砼梁变形初步分析 杜永峰,魏仲彬 (29)
高速列车振动荷载下水泥改良黄土动力学试验 王家鼎,彭淑君,马 闫,等 (35)
土遗址文物震害防御及抗震加固对策(综述) 石玉成,王旭东,李 舒,等 (42)
近场地震作用下不规则层间隔震结构的动力响应分析 李 慧,包 超,杜永峰 (51)
罕遇地震下空心薄壁高墩大跨 T 形刚构桥弹塑性地震反应分析 李 林 (56)
近断层地震作用下土质边坡动力响应研究 宋 健,高广运,陈青生,等 (62)
桩基础抗震性能的简易评价方法 张德文,张建民 (69)
P-SV 波斜入射时成层半空间自由场的时域算法 赵 密,杜修力,刘晶波,等 (84)
砂土液化大变形本构模型的三维化及其数值实现 王 韶,张建民,王 刚 (91)
带调谐液体阻尼器结构的有限元模拟分析 吕 晖,张炜超,张向红,等 (98)
滑坡稳定性评价中地震作用力计算的讨论(学术争鸣) 黄强盛,夏旺民 (104)
求解二维弹性半空间散射问题的波函数组合法 姚 虞,刘天云,张建民 (109)
单轴加载下砂岩声发射特征的试验分析 李 博,孙 强,王思源,等 (114)
地震作用下节理岩质边坡稳定性影响因素研究 蔡光亮,陈永明,石玉成,等 (119)
河谷地形的地震反应分析 盛志强,卢育霞,石玉成,等 (126)
不同掏蚀深度下古城墙的稳定性数值分析 张明泉,马可婧,刘 灿,等 (133)
浅层弯线地震勘探采集与处理技术 强正阳,卢育霞,陈永明,等 (139)

地震观测、预测科学

- 兰州马衔山北缘断裂中段晚第四纪活动的新证据 袁道阳,梁明剑,雷中生,等 (145)
地震海啸在东海大陆架上传播过程的数值模拟研究 董非非,温燕林,邓 辉,等 (154)
P 波极性揭示的甘东南地区构造应力场特征 卜玉菲,张元生,万永革,等 (160)
近地震波的小波相对能量分布特征分析 许康生,李 英,李秋红 (166)
云南彝良 5.7 级地震前卫星热红外异常 张 琰,张元生,魏从信,等 (171)
甘东南流动台阵微震监测结果 高 见,张元生,郭 鳌,等 (177)
2011 年 10 月 12 日北京市石景山区 $M_{\text{L}} 2.1$ 地震近场加速度记录初步分析
..... 赵雯佳,徐 平,林向东,等 (183)
天水地电阻率地表与井下多种观测方式的试验分析 康云生,安海静,马可兴,等 (190)
发震构造呈复杂空间关系下相互影响发震的机理研究——以汶川地震为例
..... 郭安宁,郭增建,张 津,等 (196)

期刊基本参数: CN 62-1028/P * 1979 * q * A4 * 208 * zh * P * ¥30.00 * 1000 * 29 * 2013-3

CHINA EARTHQUAKE ENGINEERING JOURNAL

Vol. 35 No. 1 March, 2013

CONTENTS

On the Renaming as the China Earthquake Engineering Journal	XIE Li-li
Earthquake Engineering	
Study on Method for Preliminary and Detailed Evaluation on Liquefaction of Loess Sites	WANG Lan-min, YUAN Zhong-xia, WANG Guo-lie (1)
Evaluation of Seismic Earth Pressure Considering Lateral Deformation	ZHANG Jian-min, SONG Fei (9)
Pushover Analysis Method of Underground Structures under Reversal load and Its Application in Seismic Damage Analysis	LIU Jing-bo, WANG Wen-hui, ZHAO Dong-dong, et al. (21)
Preliminary Analysis on Deformation of Reinforced Concrete Beam of Isolation Layer during Construction Process	DU Yong-feng, WEI Zhong-bin (29)
Dynamic Tests on the Cement-improved Loess under the Vibratory Load	WANG Jia-ding, PENG Shu-jun, MA Yan, et al. (35)
Seismic Hazard Prevention and Retrofitting of Soil Relics	SHI Yu-cheng, WANG Xu-dong, LI Shu, HU Ming-qing, et al. (42)
Dynamic Response Analysis of Irregular Story Isolation Structures under Near-field Earthquake Conditions	LI Hui, BAO Chao, DU Yong-feng (51)
Elastic-plastic Seismic Response Analysis of Hollow Thin-walled High-pier Large-span T-Shaped Rigid Frame Bridge under High-Level Earthquake Conditions	LI Lin (56)
Dynamic Response of Soil Slope under Near-fault Ground Motions	SONG Jian, GAO Guang-yun, CHEN Qing-sheng, et al. (62)
Simplified Method for Evaluating Seismic Performance of Pile Foundation	CHANG De-wen, ZHANG Jian-min (69)
Time-domain Method for Free Field in Layered Half Space under P—SV Waves of Oblique Incidence	ZHAO Mi, DU Xiu-li, LIU Jing-bo, et al. (84)
Multiaxial Formulation and Numerical Implementation of a Constitutive Model for the Evaluation of Large Liquefaction-induced Deformation	WANG Rui, ZHANG Jian-min, GANG Wang (91)
Finite Element Simulation of The Structure with Tuned Liquid Damper	LV Hui, ZHANG Wei-chao, ZHANG Xiang-hong, et al. (98)
Discussion of the Earthquake Force Calculation in Landslide Stability Evaluation	HUANG Qiang-sheng, XIA Wang-min (104)
The Combination Method of Wave Functions to Solve the Problem of Scattering in 2D Elastic Half Space	YAO Yu, LIU Tian-yun, ZHANG Jian-min (109)
Experimental Analysis of the Acoustic Emission Characteristics of Sandstone Specimens under Uniaxial Loading Tests	LI Bo, SUN Qiang, WANG Si-yuan, et al. (114)
A Study on the Influencing Factors of Joint Rock Slope Stability under Earthquake Activity	TENG Guang-liang, CHEN Yong-ming, SHI Yu-cheng, et al. (119)
Seismic Response Analysis of Valley Topography	SHENG Zhi-qiang, LU Yu-xia, SHI Yu-cheng, et al. (126)
Analysis and Numerical Calculations of Stability on Ancient City Wall under Various Sapping Depths	ZHANG Ming-quan, MA Ke-jing, LIU Can, et al. (133)
Shallow Seismic Prospecting Data Acquisition and Processing Technology of Crooked-line Measurement	QIANG Zheng-yang, LU Yu-xia, CHEN Yong-ming, et al. (139)

Seismicity Observation, Earthquake Prediction Science

New evidence for Late Quaternary Activity in the Middle Segment of the Northern Margin Fault of Maxian Shan in Lanzhou	YUAN Dao-yang, LIANG Ming-jian, LEI Zhong-sheng, et al. (145)
Numerical Simulation of Seismic Tsunami Dissemination at the Continental Shelf of the East China Sea	DONG Fei-fei, WEN Yan-lin, DENG Hui, et al. (154)
The Tectonic Stress Field in Southeastern Area of Gansu Province Deduced from P Wave Polarity Data	BU Yu-fei, ZHANG Yuan-sheng, WAN Yong-ge, et al. (160)
Distribution Characteristics of Wavelet Relative Energy on Near-earthquake Wave	XU Kang-sheng, LI Ying, LI Qiu-hong (166)
Thermal Infrared Anomaly Prior to Yiliang of Yunnan $M_S 5.7$ Earthquake	ZHANG Xuan, ZHANG Yuan-sheng, WEI Cong-xin, et al. (171)
Microearthquake Location Determined by Portable Seismic Array Data in Southeast Gansu Province	GAO Jian, ZHANG Yuan-sheng, GUO Biao, et al. (177)
Near-field Acceleration Records and Preliminary Analysis of $M_L 2.1$ Shijingshan District Earthquake on Oct. 12, 2011, Beijing	ZHAO Wen-jia, XU Ping, LIN Xiang-dong, et al. (183)
Test Analysis on Geoelectrical Resistivity Observation Combining the Surface and Deep-well Methods at Tianshui Seismic Station in Gansu Province	KAN Yun-sheng, AN Hai-jing, MA Ke-xing, et al. (190)
Research on the Effect of Seismogenic Structure with Complex Spatial Relationship on Earthquake Mechanism with the Wenchuan Earthquake as An Example	GUO An-ning, GUO Zheng-jian, ZHANG Jin, et al. (196)

欢迎订阅 2013 年度《地震工程学报》

《地震工程学报》(原《西北地震学报》)由中国地震局兰州地震研究所、清华大学、中国地震学会和中国土木工程学会主办,由中国地震局兰州地震研究所负责编辑、出版。是在国内外有相当影响的学术刊物。国内一些单位将本刊用于国际书刊交换。一些国外重要的检索系统将将本刊作为固定收录对象。北京高校图书馆期刊工作研究会和北京大学图书馆联合出版的《中文核心期刊要目总览》将本刊列为地球物理学类核心期刊,中国科学技术信息研究所建立的中国科技论文与引文数据库(CST-PCD)收录为中国科技核心期刊。

2013 年《西北地震学报》更名为《地震工程学报》,以新的面貌和更丰富优质的内容为读者服务。读者可在当地邮局订阅。邮发代号:54—28。每期定价:30.00 元,全年 4 期,共 120 元。

欢迎订阅。

如果在当地邮局不能订阅。可直接与编辑部联系。

联系地址:甘肃省兰州市东岗西路 450 号中国地震局兰州地震研究所《地震工程学报》编辑部。
邮编:730000. 电话:(0931)8275892

《地震工程学报》编辑部