



中国科学引文数据库（核心库）  
 全国中文核心期刊  
 俄罗斯《文摘杂志》

ISSN 1672-2132  
 CN 32-1695/P

# 防灾减灾工程学报

JOURNAL OF DISASTER PREVENTION AND MITIGATION ENGINEERING



中国灾害防御协会  
 江苏省地震局 主办

**2017** 第 37 卷  
 Vol.37 No.5  
**第 5 期**

# 防灾减灾工程学报

第 37 卷第 5 期

2017 年 10 月

## 目 次

- 基于小波变换和极点对称模态分解对近断层多脉冲地震动的联合分析研究 ..... 夏春旭, 柳春光(697)
- 地震持时和安全阈值对结构抗震可靠度的影响研究 ..... 张振浩, 谭荣平, 曹 峰, 等(705)
- SH 波入射下阶跃基岩覆盖土层场地地面运动特征分析 ..... 王加锐, 李鸿晶, 孙广俊(712)
- 苏州深厚场地等效剪切波速与计算深度分析 ..... 张 驰, 许汉刚, 陈国兴, 等(718)
- 开孔圆形截面空心桥墩水动力研究 ..... 吴安杰, 杨万理, 赵 雷(725)
- 结合脉动测试的金刚宝座塔地震反应分析及震害预测 ..... 李嘉怿, 卢俊龙, 李 凯, 等(732)
- 近断层地震作用下考虑  $P-\Delta$  效应的混凝土结构响应分析 ..... 张振根, 孙广俊, 李鸿晶(740)
- 格宾-柔性网泥石流组合拦阻结构模型试验研究 ..... 吴红刚, 陈小云(748)
- 泥石流浆体冲击拦砂坝荷载计算的实验研究 ..... 赵海鑫, 游 勇, 柳金峰, 等(756)
- 考虑地震力与静水压力的顺层岩质边坡弯曲破坏分析 ..... 毛文涛, 冯 君, 杨 涛, 等(763)
- 白鹤滩水电站岩质边坡微震活动特征研究 ..... 胡中华, 徐奴文, 戴 峰, 等(769)
- 软弱基底排土场堆载过程中稳定性数值模拟 ..... 曹兰柱, 王 珍, 王 东, 等(776)
- 多支撑基坑开挖对邻近桩基影响的三维数值研究 ..... 李 琳, 宋 静, 张建新, 等(782)
- 泥浆在单向固结时压缩曲线的归一化关系研究 ..... 施维成, Barry Lehane, 朱俊高, 等(790)
- 可液化地基群桩基础地震反应总应力与有效应力分析的比较 ..... 戴 琰, 陈国兴, 王志华(795)
- 新型海洋平台三种抗振措施性能对比分析 ..... 张纪刚, 孙海超, 刘菲菲(802)
- 频率法测试网架结构杆件轴力影响因素的试验研究 ..... 殷志祥, 张 晶(809)
- 垂直撞击下混凝土框架结构振动响应及其影响因素分析 ..... 石祚祥, 孙广俊, 李鸿晶(815)
- 基于矩张量的钢筋混凝土构件损伤声发射检测方法 ..... 门进杰, 赵 茜, 朱 乐, 等(822)
- 大跨悬索桥尖顶型主缆施工对猫道静风稳定性的影响 ..... 李胜利, 郑舜云, 胡亚楠, 等(828)
- 强风荷载作用下输电线路的连续倒塌破坏分析 ..... 李士锋, 李宏男, 张卓群, 等(835)
- 采动过程中下被保护层煤体变形渗流规律研究 ..... 梁 冰, 石占山, 孙维吉, 等(842)
- 有侧移钢筋混凝土方柱的耐火极限分析 ..... 吴 波, 陈海巨(848)
- 会 讯
- 第十届全国土动力学学术会议一号通知 ..... (775)

## CONTENTS

Conjoint Analysis of Near-fault Multi-pulse Ground Motion Based on Wavelet Transformation and Extreme-point Symmetric Mode Decomposition .....	XIA Chunxu, LIU Chunguang(697)
Effect of Seismic Duration and Safety Bound on Structural Seismic Reliability .....	ZHANG Zhenhao, TAN Rongping, CAO Feng, et al(705)
Characteristic Analysis of Ground Motions of Step Bedrock Site under SH Seismic Waves .....	WANG Jiarui, LI Hongjing, SUN Guangjun(712)
Analysis of Equivalent Shear Wave Velocity and Its Calculation Depth of Deep Sediment Layers in Suzhou Region .....	ZHANG Chi, XU Hangang, CHEN Guoxing, et al(718)
Study on Hydrodynamic Characteristics of Circular Hollow Pier with Holes .....	WU Anjie, YANG Wanli, ZHAO Lei(725)
A Masonry Vajra Throne Pagoda Seismic Response Analysis and Earthquake Damage Prediction Combined with Pulsation Measurement .....	LI Jiayi, LU Junlong, LI Kai, et al(732)
Response Analysis of Concrete Structure Considering the $p$ -Delta Effect due to Near-fault Earthquake Ground Motions .....	ZHANG Zhengeng, SUN Guangjun, LI Hongjing(740)
Research on Gabion-Flexible Web Structure of Debris Flow Model Test .....	WU Honggang, CHEN Xiaoyun(748)
Experimental Study on Debris Flow Slurry Impact .....	ZHAO Haixin, YOU Yong, LIU Jinfeng, et al(756)
Analysis of Flexural Failure of Consequent Rock Slope Considering Seismic Force and Hydrostatic Pressure .....	MAO Wentao, FENG Jun, YANG Tao, et al(763)
Micro-seismicity Analysis of the Left Bank Rock Slope at Baihetan Hydropower Station .....	HU Zhonghua, XU Nuwen, DAI Feng, et al(769)
Numerical Simulation of Stability in Loading Dump with Weak Basement .....	CAO Lanzhu, WANG Zhen, WANG Dong, et al(776)
Three-dimensional Numerical Analysis of Pile Response due to Multi-braced Excavation-induced Lateral Soil Movement .....	LI Lin, SONG Jing, ZHANG Jianxin, et al(782)
Study on the Normalized Relation of the Compression Curve of Slurry under One Dimensional Consolidation .....	SHI Weicheng, Barry Lehane, ZHU Jungao, et al(790)
Comparison Study of Total Stress and Effective Stress Analyses for Seismic Response of Pile Group Foundation in Liquefiable Soil .....	DAI Yan, CHEN Guoxing, WANG Zhihua(795)
The Comparative Analysis of Three Novel Offshore Platform's Anti-vibration Performance .....	ZHANG Jigang, SUN Haichao, LIU Feifei(802)
Experimental Study on Influence Factor of Frequency Method for Testing Axial Force of the Members of Spatial Truss Structures .....	YIN Zhixiang, ZHANG Jing(809)
Analysis of Vibration Response and Influencing Factors of Concrete Frame Structure due to Vertical Impact Loading .....	SHI Zuoxiang, SUN Guangjun, LI Hongjing(815)
Moment-tensor-based Acoustic Emission Detection Method for Reinforced Concrete Structure .....	MEN Jinjie, ZHAO Xi, ZHU Le, et al(822)
The Influence of Spire-type Main Cables of a Long-span Suspension Bridge on Aerostatic Stability of Catwalk during Construction .....	LI Shengli, ZHENG Shunyun, HU Ya'nan, et al(828)
Power Transmission Line Progressive Collapsed Analysis under Strong Wind Load .....	LI Shifeng, LI Hongnan, ZHANG Zhuoqun, et al(835)
Protected Coal Seam Deformation and Seepage Law Research in the Process of Mining .....	LIANG Bing, SHI Zhanshan, SUN Weiji, et al(842)
Analysis of Fire Endurance of Reinforced Concrete Columns with Sideway .....	WU Bo, CHEN Haiju(848)

# 防灾减灾工程学报

FANGZAI JIANZAI GONGCHENG XUEBAO

(双月刊, 1981年创刊)

第37卷 第5期

2017年10月15日出版

# JOURNAL OF DISASTER PREVENTION AND MITIGATION ENGINEERING

(Bimonthly, Started in 1981)

Vol.37 No.5

Published on Oct. 15, 2017

<b>主管</b>	江苏省地震局	<b>Superintended by</b>	Earthquake Administration of Jiangsu Province
<b>主办</b>	中国灾害防御协会 江苏省地震局	<b>Sponsored by</b>	China Association for Disaster Prevention Earthquake Administration of Jiangsu Province
<b>主编</b>	欧进萍	<b>Chief Editor</b>	Ou Jin-ping
<b>编辑出版</b>	《防灾减灾工程学报》编辑部	<b>Edited and Published by</b>	Editorial Office of Journal of Disaster Prevention and Mitigation Engineering
<b>地址</b>	南京市卫岗3号, 210014	<b>Address</b>	No. 3 Weigang, Nanjing 210014, China
<b>电子邮箱</b>	jdpme@vip.sina.com	<b>E-mail</b>	jdpme@vip.sina.com
<b>电话</b>	025-84285560 025-84285517	<b>Tel</b>	025-84285560 025-84285517
<b>网址</b>	<a href="http://fzjzgcxb.js-seism.gov.cn/">http://fzjzgcxb.js-seism.gov.cn/</a>	<b>Web</b>	<a href="http://fzjzgcxb.js-seism.gov.cn/">http://fzjzgcxb.js-seism.gov.cn/</a>
<b>印刷</b>	南京航空航天大学印刷厂	<b>Printed by</b>	NUAA Printing House
<b>发行</b>	全国非邮发报刊联合发行部 代号: 5219		
<b>发行地址</b>	天津市大泉寺集北里别墅17号		
<b>电话</b>	022-23973378 022-23962479		

中国标准连续出版物号 **ISSN 1672-2132**  
**CN 32-1695/P**

定价: 30.00元  
国内外公开发行

**ISSN 1672-2132**

