

ISSN 1000-4750

CN11-2595/O3

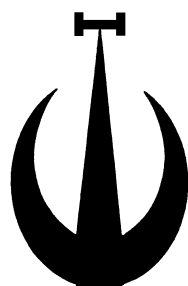
Ei 收录期刊

工程力学

第 36 卷 第 6 期

ENGINEERING MECHANICS

Vol. 36 No. 6



6

2019

《工程力学》杂志社
Engineering Mechanics Press

目 次

综 述

地震工程：从抗震、减隔震到可恢复性 周 颖，吴 浩，顾安琪 (001)

基本方法

基于滞变阻尼模型的时域计算方法 孙攀旭，杨 红，赵雯桐，王志军 (013)

Timoshenko 梁能量守恒逐步积分算法 杨浩文，吴 斌，潘天林，谢金哲 (021)

未知激励下的无迹卡尔曼滤波新方法
..... 郑翥鹏，邱 昊，夏丹丹，雷 鹰，刘德全，程棋锋 (029)

土木工程学科

基于分块组合法的多孔板塑性极限状态分析 叶冬晨，陈以一 (036)

腹板屈曲约束钢连梁抗震性能研究 王宇航，刘元九，周绪红 (049)

足尺空腔式 RC 框架柱抗震性能试验研究 杨参天，解琳琳，李爱群，陈 越 (060)

高温下混凝土动态压缩行为细观数值研究 金 浏，郝慧敏，张仁波，杜修力 (070)

预期损伤部位采用 FRC 梁柱组合件层间剪力-变形计算模型研究 王英俊，梁兴文 (079)

预制装配型钢混凝土梁受剪承载力试验与计算方法研究 杨 勇，薛亦聪，于云龙 (092)

基于多链差分进化的贝叶斯有限元模型修正方法 蒋 伟，刘 纲 (101)

考虑摩擦效应的颗粒阻尼器力学模型研究及参数分析 王宝顺，闫维明，何浩祥，许维炳 (109)

装配式自复位耗能支撑恢复力模型与试验验证 徐龙河，孙雨生，要世乾，李忠献 (119)

基于显式摩擦摆单元的大规模复杂连体结构非线性时程分析 曹胜涛，李志山，刘 博 (128)

目 次

自复位粘弹性腹杆的力学原理与滞回性能研究	卢 啸, 吕泉林 (138)
内填脱硫石膏砌块墙体的新型装配式钢框架抗震性能研究	杨俊芬, 程锦鹏, 翟 伟, 张文喆 (147)
高延性纤维增强水泥基复合材料(ECC)连续梁模型在地震荷载下的响应及其敏感性分析	古 泉, 张 宁, 郑 越 (157)
一种改进型方钢管柱与钢梁连接节点抗震性能研究	牟 犇, 王君昌, 崔 瑶, 庞力艺, 松尾真太郎 (164)
试论结构工程中的大数据: 范式、技术与实例分析	陈 隽 (175)
火灾下钢-混凝土组合梁内力变化的试验研究	张建春, 张大山, 董毓利, 王卫华 (183)
钢-混凝土预制混合梁变形性能研究	张锡治, 李青正, 章少华, 牛四欣, 段东超 (193)
自复位放大位移型 SMA 阻尼器优化设计方法研究	黄 宙, 李宏男, 付 兴 (202)
纵肋与横隔板交叉构造细节穿透型疲劳裂纹扩展特性及其加固方法研究	卜一之, 金 通, 李 俊, 张清华 (211)
连续排水边界条件下线性加载地基一维固结解析解	冯健雪, 陈 征, 李勇义, 梅国雄 (219)
高速铁路桥梁竖向变形与轨面几何形态的通用映射解析模型研究	勾红叶, 冉智文, 蒲黔辉, 许会燕 (227)
钢筋混凝土梁-板子结构抗连续性倒塌性能研究	钱 凯, 李 治, 翁运昊, 邓小芳 (239)
多向动力耦合激励下隔震结构连续倒塌性能分析	杜永峰, 时 晨 (248)

CONTENTS

OVERVIEWS

- Earthquake engineering: from earthquake resistance, energy dissipation, and isolation, to resilience.....
ZHOu Ying , WU Hao , GU An-qi (001)

METHODOLOGIES

- Time domain calculation method based on hysteretic damping model.....
 SUN Pan-xu , YANG Hong , ZHAO Wen-tong , WANG Zhi-jun (013)
- Energy-conserving time integration method for Timoshenko beams.....
YANG Hao-wen , WU Bin , PAN Tian-lin , XIE Jin-zhe (021)
- A novel unscented kalman filter with unknown input.....
ZHENG Zhu-peng , QIU Hao , XIA Dan-dan , LEI Ying , LIU De-quan , CHENG Qi-feng (029)

CIVIL ENGINEERING

- Plastic limit state analysis of bending perforated plates based on segmentation method.....
YE Dong-chen , CHEN Yi-yi (036)
- Study on seismic property of steel coupling beam with restrained web.....
WANG Yu-hang , LIU Yuan-jiu , ZHOu Xu-hong (049)
- Experimental study on seismic performance of full-scale reinforced concrete frame hollow columns
YANG Can-tian , XIE Lin-lin , LI Ai-qun , CHEN Yue (060)
- Meso-scale simulations of dynamic compressive behavior of concrete at elevated temperature.....
JIN Liu , HAO Hui-min , ZHANG Ren-bo , DU Xiu-li (070)
- Calculation model for inter-story shear deformation of beam-column subassemblages with FRC in the expected damage location.....
WANG Ying-jun , LIANG Xing-wen (079)
- Research on the shear strength of precast steel reinforced concrete beams
 YANG Yong , XUE Yi-cong , YU Yun-long (092)
- Bayesian finite element model updating method based on multi-chain differential evolution
JIANG Wei , LIU Gang (101)
- Mechanical model and parameter analysis of particle damper with considering friction effect
WANG Bao-shun , YAN Wei-ming , HE Hao-xiang , XU Wei-bing (109)
- Restoring force model and experimental verification of an assembled self-centering energy dissipation brace
XU Long-he , SUN Yu-sheng , YAO Shi-qian , LI Zhong-xian (119)
- Nonlinear time history analysis of a large-scale complex connected structure base on an explicit friction pendulum element.....
 CAO Sheng-tao , LI Zhi-shan , LIU Bo (128)

CONTENTS

Study on the mechanics principle and hysteretic behavior of self-centering viscoelastic diagonal members ...	
.....	LU Xiao , LÜ Quan-lin (138)
Study on aseismic performance of a new type of fabricated steel frame with internal desulfurization gypsum block wall	YANG Jun-fen , CHENG Jin-peng , ZHAI Wei , ZHANG Wen-zhe (147)
Response and sensitivity analysis of continuous beam model using engineered cementitious composite (ECC) under seismic loading	GU Quan , ZHANG Ning , ZHENG Yue (157)
The seismic performance of an improved square steel hollow column to steel beam joint	
.....	MOU Ben , WANG Jun-chang , CUI Yao , PANG Li-yi , Matsuo Shintaro (164)
A discussion on big data in structural engineering: paradigm, technology and example.....	CHEN Jun (175)
Experimental study on internal force variation of steel-concrete composite beam under fire	
.....	ZHANG Jian-chun , ZHANG Da-shan , DONG Yu-li , WANG Wei-hua (183)
Study on the deformation performance of precast hybrid steel-concrete beams	
.....	ZHANG Xi-zhi , LI Qing-zheng , ZHANG Shao-hua , NIU Si-xin , DUAN Dong-chao (193)
Optimum design of a re-centering deformation-amplified SMA damper.....	
.....	HUANG Zhou , LI Hong-nan , FU Xing (202)
Research on propagation characteristics and reinforcement method of penetrating crack at rib-to-diaphragm welded joints in steel bridge deck	BU Yi-zhi , JIN Tong , LI Jun , ZHANG Qing-hua (211)
Analytical solution for one-dimensional consolidation of soft clayey soil with a continuous drainage boundary under linear loading	FENG Jian-xue , CHEN Zheng , LI Yong-yi , MEI Guo-xiong (219)
Study on mapping relationship between bridge vertical deformation and track geometry of high-speed railway	
.....	GOU Hong-ye , RAN Zhi-wen , PU Qian-hui , XU Hui-yan (227)
Behavior of RC beam-slab substructures to resist progressive collapse	
.....	QIAN Kai , LI Zhi , WENG Yun-hao , DENG Xiao-fang (239)
Progressive collapse performance of isolated structures subjected to multi-direction coupled dynamic excitation	
.....	DU Yong-feng , SHI Chen (248)