

目次

基本方法

考虑大变形和排水条件时柱孔扩张问题统一解析..... 邹金锋, 吴亚中, 李 亮, 彭建国, 张进华 (001)

变时滞空间网格结构振动问题的改进动态矩阵预测控制..... 赵尧军, 周 岱, 黄 真, 邓麟勇 (008)

钢板剪力墙加劲肋刚度及弹性临界应力研究..... 赵 伟, 杨强跃, 童根树 (015)

采用压痕实验确定线性强化弹塑性材料的弹性模量..... 钱秀清, 曹艳平, 张建宇 (024)

任意四边形平面问题的样条有限元法..... 秦 剑, 黄克服 (029)

有限元法求解广义热弹耦合一维热冲击问题..... 何天虎, 关明智 (035)

叠层板在两项简谐激励作用下的组合共振分析..... 胡宇达, 吕书锋, 李佰洲 (040)

偶应力理论的径向点插值无网格法研究..... 李 雷, 周毅英, 贺 睿, 谢水生 (045)

土木工程学科

翼板开洞率 100% 的钢-混凝土组合梁整体弹性稳定性分析..... 聂建国, 王宇航, 蔡 奇 (051)

单斜杆耗能器偏心支撑结构的抗震性能研究..... 潘秀珍, 郝际平, 王德法, 朱轶韵, 高 杰 (057)

屋盖风振响应功率谱及背景与共振响应的分离..... 李 璟, 韩大建 (065)

波浪作用下二维海床土体位移分布研究..... 张永利, 李 杰 (072)

钢筋混凝土剪力墙多垂直杆单元模型力学性质分析及其改进..... 谢 凡, 沈蒲生 (077)

索力对斜拉索动力特性的影响..... 康厚军, 赵跃宇 (083)

考虑块体间碰撞作用的混凝土框架结构空间倒塌反应分析..... 侯 健 (089)

地震波时频特征及与结构地震响应的关系..... 樊 剑, 吕 超, 张 辉 (098)

扭矩对受弯和压弯钢构件整体稳定性的影响..... 田兴运 (106)

脉冲型竖向地震作用下大跨度 RC 带腋撑框架结构弹塑性动力响应分析.....

..... 周 靖, 周 飞, 蔡 健, 王里佳 (113)

汶川地震对我国地震区划图与桥梁抗震设计的启示..... 王克海, 李 茜, 韦 韩 (120)

混凝土断裂过程区尺寸的理论推导..... 胡若邻, 黄培彦, 郑顺潮 (127)

沈阳综合体育馆屋盖多振型和交叉项对动位移响应的影响.... 赵劲松, 黄本才, 廖泽邦, 林 高 (133)

目 次

裤型漏斗型钢贮煤仓散料压力分布研究.....	李海旺, 刘 静, 树学峰 (140)
拱坝抗曲折稳定再探.....	王正中, 刘计良 (147)
基于扰动状态概念的堆石料本构模型研究.....	徐远杰, 潘家军, 楚锡华, 孔 科 (154)
斜坡地基单侧滑移破坏模式及承载力上限解.....	杨 峰, 阳军生, 张学民, 赵炼恒 (162)
数字图像相关方法在纤维混凝土拉拔试验中的应用.....	赵燕茹, 邢永明, 黄建永, 姜爱峰 (169)
基于上限法的大钢管挤压力理论计算.....	张浩然, 张人信, 颜永年, 林 峰, 卢清萍, 孙 富 (176)
单向 EMC 层合板折叠变形时面内/面外屈曲形式的判据.....	熊志远, 王正道, 李豫彰, 李郑发, 畅若妮 (183)

其他工程学科

基于 Hertz 碰撞模型的 TMD 参数优化研究.....	闫安志, 陈亚娟, 滕 军 (189)
基于 B 样条小波有限元的压电材料层合板灵敏度分析.....	徐建新, 李顶河, 卢 翔, 卿光辉 (194)
水下射弹自然超空泡减阻特性的数值模拟.....	金大桥, 王 聪, 魏英杰, 董 磊, 邹振祝 (202)
沙埋现象的无网格粒子法模拟.....	金阿芳, 买买提明·艾尼, 杨智春 (209)
微接触区中边界膜滑移效应分析: 微接触区宽度和表面粗糙度的影响.....	张勇斌 (215)
热采井预膨胀固井模拟实验.....	阳鑫军, 李子丰, 王兆运, 田新民 (223)
FCC 晶体中孔洞长大行为的研究.....	刘文辉, 刘龙飞, 唐建国 (228)
三维瞬态方形管流的热流固耦合数值模拟.....	张 健, 黄晨光 (232)
导电圆形薄板的磁弹性动力响应特征.....	徐 榜, 高原文 (240)
螺栓紧固铝板疲劳裂纹萌生的有限元参数分析.....	林恩强, 郭 然, 罗吉祥, 姚振汉 (245)
正多边形气柜立柱结构简化分析方法研究.....	贾冬云, 曹平周, 姜德进 (252)

CONTENTS**METHODOLOGIES**

- Unified elastic plastic solution for cylindrical cavity expansion considering large strain and drainage condition ZOU Jin-feng , WU Ya-zhong , LI Liang , PENG Jian-guo , ZHANG Jin-hua (001)
- Improved dynamic matrix predictive control for structural vibration reduction of spatial latticed structures with variable time delay..... ZHAO Yao-jun , ZHOU Dai , HUANG Zhen , DENG Lin-yong (008)
- Stiffener stiffness and elastic buckling stress of steel plate shear wall..... ZHAO Wei , YANG Qiang-yue , TONG Gen-shu (015)
- Determining the elastic modulus of linearly hardening elastoplastic materials using indentation tests QIAN Xiu-qing , CAO Yan-ping , ZHANG Jian-yu (024)
- B-spline finite element method for the plane problem of arbitrary quadrilateral region QIN Jian , HUANG Ke-fu (029)
- Finite element method to a generalized one-dimensional thermo-elastic coupled problem subject to a thermal shock..... HE Tian-hu , GUAN Ming-zhi (035)
- Nonlinear combination resonances of orthotropic laminated plate under two-term harmonic excitation HU Yu-da , LU Shu-feng , LI Bai-zhou (040)
- Study on the radial point interpolation meshless method for couple stress theory LI Lei , ZHOU Yi-ying , HE Rui , XIE Shui-sheng (045)

CIVIL ENGINEERING

- Elastic lateral stability analysis of composite steel-concrete beams with whole openings in concrete slab NIE Jian-guo , WANG Yu-hang , CAI Qi (051)
- Resisting seismic behavior study of the single diagonal energy dissipating eccentrically braced steel frames... PAN Xiu-zhen , HAO Ji-ping , WANG De-fa , ZHU Yi-yun , GAO Jie (057)
- Power spectra of wind-induced response and separation of background response from resonant response for roof structures..... LI Jing , HAN Da-jian (065)
- Study on two-dimensional seabed soil displacement distribution under wave action ZHANG Yong-li , LI Jie (072)
- Mechanical analysis of multi-vertical-line-element model of RC shear-walls and its improvement..... XIE Fan , SHEN Pu-sheng (077)
- Effects of initial tension on dynamic characteristics of stay cables..... KANG Hou-jun , ZHAO Yue-yu (083)
- Simulation on the collapse process of 3-D concrete frame structures considering impact action between concrete blocks..... HOU Jian (089)
- Relation between time-frequency characteristic of earthquake ground motions and structural earthquake responses FAN Jian , LU Chao , ZHANG Hui (098)
- The impact of torsions on the overall stability of curved and compressed steel members TIAN Xing-yun (106)
- Seismic elastic-plastic response of long-span RC frame structure with haunched members subjected to pulse-like vertical ground motions ZHOU Jing , ZHOU Fei , CAI Jian , WANG Li-jia (113)
- Enlightenment in bridge seismic design and seismic zonation from Wenchuan earthquake WANG Ke-hai , LI Qian , WEI Han (120)
- Theoretical derivation of the size of fracture process zone of concrete HU Ruo-lin , HUANG Pei-yan , ZHENG Shun-chao (127)
- Effect of multi-mode and cross part of mode on dynamic displacement at the roof of Shengyang gym ZHAO Jin-song , HUANG Ben-cai , LIAO Ze-bang , LIN Gao (133)

CONTENTS

Research on the distribution of granular coal pressure on the wall of a special silo with trouser-shape funnel..	LI Hai-wang , LIU Jing , SHU Xue-feng (140)
Further discussions on the stability of arch dam against elastic buckling	WANG Zheng-zhong , LIU Ji-liang (147)
Study on constitutive model for rockfill material based on the disturbed state concept	XU Yuan-jie , PAN Jia-jun , CHU Xi-hua , KONG Ke (154)
One-side slip failure mechanism and upper bound solution for bearing capacity of foundation on slope	YANG Feng , YANG Jun-sheng , ZHANG Xue-min , ZHAO Lian-heng (162)
Study on the fiber-reinforced concrete pull-out test using digital image correlation method	ZHAO Yan-ru , XING Yong-ming , HUANG Jian-yong , JIANG Ai-feng (169)
Theoretical computation on the extrusion of large scale steel pipe based on upper bound method	ZHANG Hao-ran , ZHANG Ren-ji , YAN Yong-nian , LIN Feng , LU Qing-ping , SUN Fu (176)
Judgement of in-plane/out-of-plane microbuckling mode for packaged unidirectional EMC laminates	XIONG Zhi-yuan , WANG Zheng-dao , LI Yu-zhang , LI Zheng-fa , CHANG Ruo-ni (183)

OTHER ENGINEERING DISCIPLINES

Optimization of impact parameter of TMD based on Hertz model	YAN An-zhi , CHEN Ya-juan , TENG Jun (189)
Sensitivity analysis based on finite element of B-spline wavelets for piezoelectric laminates	XU Jian-xin , LI Ding-he , LU Xiang , QING Guang-hui (194)
Numerical simulation on drag reduction of natural supercavitation induced by underwater projectile	JIN Da-qiao , WANG Cong , WEI Ying-jie , DONG Lei , ZOU Zhen-zhu (202)
Simulation of sand cover by meshfree particle method	JIN A-Fang , Maimtimin GENI , YANG Zhi-chun (209)
Analysis of the boundary film slippage effect in a micro contact: influences of the micro contact width and surface roughness	ZHANG Yong-bin (215)
Simulating experiment of casing cementing with pre-expansion	YANG Xin-jun , LI Zi-feng , WANG Zhao-yun , TIAN Xin-min (223)
The study of void growth behavior in FCC crystal	LIU Wen-hui , LIU Long-fei , TANG Jian-guo (228)
Numerical simulation of 3-D transient thermo-fluid-solid coupled flow in a rectangular channel	ZHANG Jian , HUANG Chen-guang (232)
Magneto-elastic dynamic response of a thin conductive circular plate	XU Bang , GAO Yuan-wen (240)
Analysis of the parameter effect on fatigue crack in riveted components with finite element method	LIN En-qiang , GUO Ran , LUO Ji-xiang , YAO Zhen-han (245)
Study on simplified analytical method for the column of regular polygon gasholder	JIA Dong-yun , CAO Ping-zhou , JIANG De-jin (252)