



ISSN1000—4939
CN61—1112/O3

应用力学学报

CHINESE JOURNAL OF APPLIED MECHANICS

2019

第36卷 第6期(卷终)
Vol.36 No.6

ISSN 1000-4939



9 771000 493192



西安交通大学主办



应用力学学报

第 36 卷 第 6 期 总第 160 期

2019 年 12 月 15 日出版

目 次

基于温敏光纤的边界层转捩测量技术研究	焦予秦 赵 越 肖春生(1253)
变厚度圆环板/圆板横向自由振动的动刚度法求解	朱兹祯 王纬波 殷学文 高存法(1260)
受火浅圆钢拱平面内跳跃失稳与弯曲行为分析	宋 帅 谭英华 胡亚超 席 丰(1267)
初始驱动角对半主动拍动翼能量获取的影响	李伟忠 王文全 闫 妍(1274)
山地下击暴流风剖面特性试验研究	吉柏锋 尹 旭 柳广义 瞿伟廉 张 旭(1280)
不同加速度谱型激励下非线性堆码包装系统的动力学响应	房树盖 王志伟(1286)
连续分层流体中内波传播的李群分析法	郑明亮 冯 鲜(1294)
计及齿面微观特征影响的齿轮非线性动力学模型研究	陈 奇 汪金成 姚志刚 Ammar Khushnood 吴焱明(1300)
基于扩展有限元法的混凝土断裂参数研究	唐宇翔 陈红鸟 王青原 黄兴震(1307)
多相流水击模型在泄压阀压力精度设定中的应用	骆正山 钟 强 毕傲睿(1314)
不同松动程度下古木结构不对称榫卯节点滞回特性及破坏评估试验研究	董金爽 薛建阳 隋 奕 夏海伦(1321)
管土作用下海底悬跨管道裂纹断裂韧性研究	唐 毅 马廷霞 轩 恒(1328)
套索式黏滞阻尼器位移放大系数的理论和实验研究	岳焱超 陈唐兵 王 雁 刘卫平 王新娣 刘 卓(1334)
大跨屋盖结构表面风向折减因子研究	郑星辰 任 盛 杨庆山(1340)
菱形多孔结构线性性能分析	刘 涛 安子军(1348)
油套管特殊螺纹密封面接触应力松弛行为研究	张 颖 练章华 周 溢 林铁军(1355)
新型深井排气阀设计及动态分析	秦连升 杜 坚(1362)
拉格朗日元与虚拟裂缝模型耦合方法及准脆性材料拉伸试验模拟	王学滨 白雪元 祝铭泽 芦伟男(1367)
基于多项式插值的太阳帆板展开最优控制	崔 浩 戈新生(1374)
基于计算机仿真的 3D 打印血管材料力学性能研究	王继燕(1379)
矩形钢管加劲肋加强 K 形箱型相贯节点极限承载力数值分析	袁西贵 刘远征 王 旭 袁 波(1384)
不同形状破片撞击 7A04-T6 高强铝合金板的数值仿真研究	张铁纯 路明建 蔡雄峰(1390)
某 SUV 汽车二四驱适时切换机构壳体优化设计	黄 蔚 何 锋 李家俊 高洋洋(1398)
超大沉管隧道管节水下顶推精确调整受力运动规律分析	冯海暴 刘德进(1405)
考虑引流槽开挖措施的堰塞坝溃决机制分析	王 琳 李炎隆 李守义 薛一峰 司 政(1412)
蛇行带式输送机转弯行驶稳定性分析及实验研究	张东升 李 岩 王金成(1420)
超音速气流中贴压电层的功能梯度材料混合板的颤振分析	黄小林 王 熙 董 雷 张 伟(1429)
多频激励下悬索非线性共振特性受温度影响分析	黄超辉 赵珣冰(1435)
基于修正偶应力理论的 Euler-Bernoulli 微梁的尺寸效应研究	郑雪瑶 周 博 薛世峰(1442)
基于 AMESim 的承重实验台同步加载系统液压调平设计与实验研究	左都全 钱利霞 夏国峰 王海宝 罗锦洁(1451)
矩形高层建筑风致脉动扭矩时程模拟	孙业华 宋固全(1457)
切削颤振的研究进展综述	杨坤 黄立新(1464)
爆炸荷载作用下锚固洞室的损伤演化及锚杆参数的影响	王光勇 裴晨浩 林加剑(1471)
深水钢悬线立管触地区力学特性数值模拟分析	兰四清(1478)
基于流固耦合的输气管道与断层最佳交角研究	陈 飞 付凌迪(1484)
地震作用下刚性挡土墙发生转动时动主动土压力计算	刘 勇 何华飞 宋玉香 韩 石(1490)
基于 MSSP/DM-MAC 法的传感器优化布置	桂成中 雷俊卿 段 志 张贤卿(1499)
基于伯努利方程舱室内爆炸准静态泄压过程研究	徐维铮 吴卫国(1504)
《应用力学学报》第三十六卷总目次	(1509)

英文摘要 (i~xvi)

期刊基本参数 CN61-1112/O3*1984*S*A4*280*zh*p*¥65*1000*38*2019-12

Chinese Journal of Applied Mechanics

Vol.36 No.6

Dec. 2019

CONTENTS

Investigation on technique of boundary-layer transition measurement based on temperature-sensitive optical fiber	Jiao Yuqin Zhao Yue Xiao Chunsheng (i)
Dynamic stiffness method for the free transverse vibration of annular/circular plates with radial varying thickness	Zhu Hongzhen Wang Weibo Yin Xuwen Gao Cunfa (i)
Analysis on the snap-through instability and bending behavior of steel arch under fire	Song Shuai Tan Yinghua Hu Yachao Xi Feng (ii)
Effects of initial actuated angle on energy harvesting performance of a semi-active flapping foil	Li Weizhong Wang Wenquan Yan Yan (ii)
Experimental research on wind profile characteristics of hilly terrain downburst	Ji Baifeng Yin Xu Liu Guangyi Qu Weilian Zhang Xu (iii)
Dynamic responses of nonlinear stacked packaging system under different spectral acceleration excitations	Fang Shugai Wang Zhiwei (iii)
Lie group analysis of internal wave propagation in continuous stratified fluids	Zheng Mingliang Feng Xian (iii)
Research on nonlinear dynamics model of gear pair considering tooth surface micro-characters	Chen Qi Wang Jincheng Yao Zhigang Ammar Khushnood Wu Yanming (iv)
Study of fracture parameters of concrete based on extended finite element method	Tang Yuxiang Chen Hongniao Wang Qingyuan Huang Xingzhen (iv)
Application of multi-phase water hammer model in pressure accuracy setting of pressure relief valve	Luo Zhengshan Zhong Qiang Bi Aorui (v)
Experimental research on hysteretic behavior and seismic damage evaluation of asymmetric mortise-tenon joints under different degree of looseness in Chinese ancient wooden structures	Dong Jinshuang Xue Jianyang Sui Yan Xia Hailun (v)
Research on crack fracture toughness of submarine suspended pipeline under interaction between pipe and soil	Tang Yi Ma Tingxia Xuan Heng (v)
The theoretical and experimental research on the displacement magnification coefficient in Toggle-Brace-System	Yue Yanchao Chen Tangbing Wang Yan Liu Weiping Wang Xindi Liu Zhuo (vi)
Directionality reduction factor of wind load on long-span roof structures	Zheng Xingchen Ren Yu Yang Qingshan (vi)
Linear performance analysis of rhombohedral porous structures	Liu Tao An Zijun (vii)
Study on contact stress relaxation on premium connections sealing surface of tubing and casing	Zhang Ying Lian Zhanghua Zhou Mi Lin Tiejun (vii)
Design and dynamic analysis of new deep well exhaust valve	Qin Liansheng Du Jian (vii)
A method coupled by the Lagrangian element and the fictitious crack model and modeling of tensile tests of quasibrittle materials	Wang Xuebin Bai Xueyuan Zhu Mingze Lu Weinan (viii)
Optimal control of stretching process of solar array on spacecraft based on polynomial interpolation method	Cui Hao Ge Xinsheng (viii)
Computer-aided simulation-based studies on mechanical properties of the materials for blood vessel 3D-printing	Wang Jiyan (ix)
Numerical analysis of the ultimate capacity of stiffener reinforced tubular K-joints	Yuan Xigui Liu Yuanzheng Wang Xu Yuan Bo (ix)
Numerical simulation research of 7A04-T6 high strength aluminum alloy plates against different shape fragments impact	Zhang Tiechun Lu Mingjian Cai Xiongfang (ix)
Optimization design for the two and four-wheel drive timely switching shell of a SUV automobile	Huang Wei He Feng Li Jiajun Gao Yangyang (x)
Analysis of the law of the force and motion of the super large immersed tunnel elements during the underwater pushing and precise adjustment	Feng Haibao Liu Dejin (x)
Breaching mechanism analysis of landslide dam considering drainage channel excavating measures	Wang Lin Li Yanlong Li Shouyi Xue Yifeng Si Zheng (xi)
Stability analysis and experimental research of serpentine belt conveyor	Zhang Dongsheng Li Yan Wang Jincheng (xi)
Flutter analysis of functionally graded hybrid plates with piezoelectric layer in supersonic flow	Huang Xiaolin Wang Xi Dong Lei Zhang Wei (xii)
Investigation of temperature effect on nonlinear oscillation characteristics of suspended cable under multi-frequency excitation	Huang Chaohui Zhao Yaobing (xii)
Study on the size effect of Euler-Bernoulli micro-beam based on modified couple stress theory	Zheng Xueyao Zhou Bo Xue Shifeng (xiii)
Hydraulic leveling design and experimental research of an AMESim-based synchronous loading system for bearing test bed	Zuo Duquan Qian Lixia Xia Guofeng Wang Haibao Luo Jinjie (xiii)
Simulation of wind-induced fluctuating torque for rectangular high-rise buildings	Sun Yehua Song Guquan (xiii)
Review of chatter issues in machining	Yang Kun Huang Lixin (xiv)
The damage evolution and influence of bolt parameters of tunnels reinforced by rockbolts under blast loads	Wang Guangyong Pei Chenhao Lin Jiajian (xiv)
Numerical simulation of the mechanical interactions between the deepwater steel catenary riser and the touchdown zone of seabed	Lan Siqing (xv)
Research of optimal crossing angle of gas transmission pipeline and fault based on fluid-solid coupling	Chen Fei Fu Lingdi (xv)
Calculation of dynamic active earth pressure of rigid retaining walls when rotation mode in earthquakes	Liu Yong He Huafei Song Yuxiang Han Shi (xv)
Optimal sensor placement by using MSSP/DM-MAC method	Gui Chengzhong Lei Junqing Duan Zhi Zhang Xianqing (xvi)
The research on quasi-static relief process of explosion in a cabin based on Bernoulli equation	Xu Weizheng Wu Weiguo (xvi)