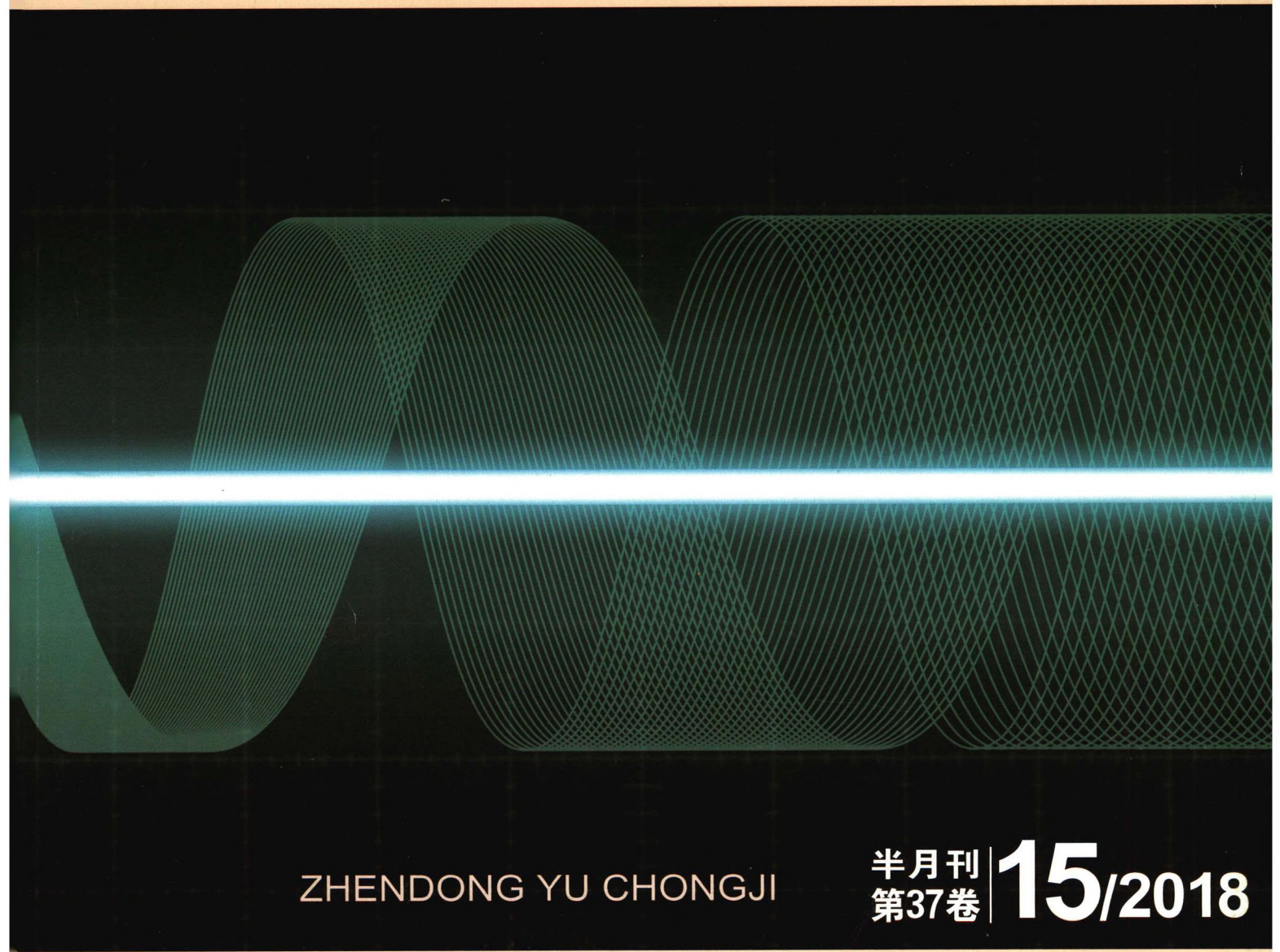


QK1844363

振动与冲击

JOURNAL OF VIBRATION AND SHOCK



ZHENDONG YU CHONGJI

半月刊 | 第37卷 | **15/2018**

ISSN 1000-3835

9 771000 383189 1.5

万方数据

中国振动工程学会
上海交通大学 主办
上海市振动工程学会

目 次

- 变负载工况下高速永磁电机转子动力学特性试验研究…………… 郝 龙, 杨金福, 唐长亮, 等 (1)
- 基于改进 VMD 与包络导数能量算子的滚动轴承早期故障诊断 …………… 任学平, 李 攀, 王朝阁, 等 (6)
- 高坝泄洪诱发场地振动传播问题的有限元-无限元耦合分析…………… 张 龔, 练继建, 李松辉, 等 (14)
- FA-PMA-VMD 方法及其在齿根裂纹故障诊断中的应用…………… 程军圣, 李梦君, 欧龙辉, 等 (27)
- 机车转子非线性系统的动力学分析…………… 杨 柳, 杨绍普, 杨月婷 (33)
- 多维地震激励下结构碰撞振动台试验及碰撞影响参数研究…………… 闫 磊, 李青宁, 岳克峰, 等 (43)
- 高速侵彻弹体表层侵蚀效应理论计算…………… 郭 磊, 何 勇, 潘绪超, 等 (51)
- 真三轴静载作用下混凝土的动态力学性能研究…………… 徐松林, 王鹏飞, 单俊芳, 等 (59)
- 低幅值应力波在岩石三维节理面的折反射规律理论研究…………… 刘传正, 张建经, 崔 鹏 (68)
- 一种基于分子结构设计理论的聚类分析方法…………… 张西宁, 雷 威, 唐春华, 等 (78)
- 弹体低速撞击下蓄液结构毁伤特性研究…………… 刘雨曦, 任 鹏, 拾 路 (84)
- U 型波纹管声学传递损失的数值分析与实验验证…………… 薛 飞, 孙蓓蓓, 陈建栋, 等 (90)
- 基于概率密度演化法的隔震结构随机地震响应与可靠度分析…………… 顾镇媛, 王曙光, 杜东升, 等 (97)
- 基于压缩感知的贮运信息动态获取方法…………… 许富景, 马铁华 (104)
- 碳纤维复合材料-泡沫铝夹芯板的冲击响应…………… 肖先林, 王长金, 赵桂平 (110)
- 自振脉冲喷嘴异形结构对射流冲蚀性能的影响…………… 唐川林, 徐 旭, 王霞光, 等 (118)
- 两端固支屈曲梁准零刚度隔振器的微振动隔振性能分析…………… 王云峰, 李 博, 王利桐 (124)
- 基于耗能系梁的双肢高墩刚构桥减震控制研究…………… 李 勇, 刘晶波, 李朝红 (130)
- 爆破扰动松软煤层对巷道围岩稳定性的影响…………… 高 魁, 刘泽功, 刘 健, 等 (136)
- 高地应力下硬岩爆破破岩特性及能量分布研究…………… 肖思友, 姜元俊, 刘志祥, 等 (143)

考虑不完整边界条件的新型混合试验方法·····	吴 斌, 宁西占, 许国山, 等 (150)
一种新型惯容减震器的设计及减震效果研究·····	刘良坤, 谭 平, 闫维明, 等 (156)
不同阻尼体系的运动状态判别法研究·····	黎 莹, 张之颖, 魏洪杨 (164)
微尺度 CSP 焊点温振耦合应力应变有限元分析 ·····	黄春跃, 韩立帅, 梁 颖, 等 (171)
齿轮箱故障非线性特征测度及状态 TWSVM 辨识研究·····	曾 柯, 柏 林 (179)
不同爆炸力作用下端部消波和加密锚杆支护洞室动态响应研究·····	王光勇, 陈安敏, 徐景茂 (185)
侧向局部爆炸荷载下钢质方管的损伤破坏及影响因素研究·····	余 洋, 纪 冲, 周 游, 等 (191)
蒸气云爆炸作用下钢储罐动力响应的双向流固耦合分析·····	胡 可, 赵 阳, 王 钢, 等 (199)
基于虚拟简支梁法的桥梁动态称重研究·····	邓 露, 施 海, 何 维, 等 (209)
基于改进多目标粒子群算法的商用车悬架系统优化·····	范政武, 王 铁, 王永红, 等 (216)
基于车-桥随机振动模型的简支梁桥墩顶垂向动反力特征研究 ·····	朱志辉, 黄承志, 王力东, 等 (225)
多点刚性耦合产品包装运输系统间接逆向子结构分析·····	孟天涯, 李明宇, 郭 栋, 等 (233)
基于实测相电流的永磁同步电机转矩波动阶次来源分析及幅值预测·····	毛 钰, 左曙光, 邓文哲, 等 (239)
基于嵌入分数维的树种算法的结构质量刚度识别·····	赵一霖, 刘济科, 丁政豪, 等 (246)
RC 桥墩残余位移模拟的参数敏感性分析 ·····	赵泰儀, 孙治国, 王东升, 等 (251)
考虑系统不确定性的车辆主动悬架自适应模糊滑模控制·····	庞 辉, 梁 军, 王建平, 等 (261)
复杂边界条件板壳耦合结构振动分析·····	代 路, 林原胜, 柳 勇, 等 (270)
一块简支石墨烯片动力响应的小尺度效应研究·····	谢根全, 王建平, 张琦琬 (277)



本期广告索引

单色、彩色广告

- 封二 Brüel & Kjær 中国
- 封三 北京东方振动和噪声技术研究所
- 封四 扬州英迈克测控技术有限公司
- 前插 1 杭州亿恒科技有限公司
- 前插 2 南京安正软件工程有限公司
- 万方数据

- 前插 3 南京安正软件工程有限公司
- 前插 4 米勒贝姆振动与声学系统(北京)有限公司

彩色广告

- 后插 1 杭州锐达数字技术有限公司
- 后插 2 杭州锐达数字技术有限公司

CONTENTS

Tests for dynamic characteristics of a high speed permanent magnet motor's rotor under different loads	HAO Long, YANG Jinfu, TANG Changliang, et al (1)
Rolling bearing early fault diagnosis based on improved VMD and envelope derivative operator	REN Xueping, LI Pan, WANG Chaoge, et al (6)
Analysis of ground vibration propagation problems induced by high dam flood discharge using finite-infinite element coupled method	ZHANG Yan, LIAN Jijian, LI Songhui, et al (14)
FA-PMA-VMD method and its application in gear tooth root crack fault diagnosis	CHENG Junsheng, LI Mengjun, OU Longhui, et al (27)
Dynamic behavior of a locomotive nonlinear rotor system	YANG Liu, YANG Shaopu, YANG Yueting (33)
Shaking table tests and pounding parametric analysis for structure collision under multi-dimensional seismic excitations	YAN Lei, LI Qingning, YUE Kefeng, et al (43)
Theoretical calculation for surface abrasion effect of projectiles penetrating in to concrete targets with a high speed	GUO Lei, HE Yong, PAN Xuchao, et al (51)
Dynamic behavior of concrete under static tri-axial loadings	XU Songlin, WANG Pengfei, SHAN Junfang, et al (59)
Reflection and refraction laws of low amplitude stress wave on a 3D rock joint surface	LIU Chuangzheng, ZHANG Jianjing, CUI Peng (68)
A clustering analysis method based on theory of molecular structure design	ZHANG Xining, LEI Wei, TANG Chunhua, et al (78)
Damage characteristics of liquid-filled tanks impacted by low speed projectiles	LIU Yuxi, REN Peng, SHI Lu (84)
Numerical analysis and test verification for acoustical transmission loss of U-shaped corrugated pipes	XUE Fei, SUN Beibei, CHEN Jiandong, et al (90)
Random seismic responses and reliability of isolated structures based on probability density evolution method	GU Zhenyuan, WANG Shuguang, DU Dongsheng, et al (97)
Storage and transportation information's dynamic acquisition method based on compressed sensing	XU Fujing, MA Tiehua (104)
Dynamic responses of carbon fiber composite sandwich panels with aluminum foam core subjected to impact loading	XIAO Xianlin, WANG Changjin, ZHAO Guiping (110)
Effects of nozzle's special-shaped structure on erosion performances of a self-excited oscillation pulsed jet	TANG Chuanlin, XU Xu, WANG Xianguang, et al (118)
Micro-vibration isolation performance of a clamped-clamped buckled beam quasi-zero-stiffness isolator	WANG Yunfeng, LI Bo, WANG Litong (124)
Aseismic control of a rigid frame bridge with double-limb high piers based on energy dissipation tie-beams	LI Yong, LIU Jingbo, LI Zhaohong (130)
Effects of blast disturbing soft coal seam on stability of roadway surrounding rock	GAO Kui, LIU Zegong, LIU Jian, et al (136)
Hard rock blasting energy distribution and fragmentation characteristics under high earth stress	XIAO Siyou, JIANG Yuanjun, LIU Zhixiang, et al (143)

A novel hybrid simulation method considering incomplete boundary conditions	WU Bin, NING Xizhan, XU Guoshan, et al (150)
Design of a novel inerter damper and its aseismic effect under earthquake	LIU Liangkun, TAN Ping, YAN Weiming, et al (156)
Identification method for motion states of different damping systems	LI Ying, ZHANG Zhiying, WEI Hongyang (164)
Finite-element analysis for temperature-vibration coupled stress and strain of a microscale CSP solder joint	HUANG Chunyue, HAN Lishuai, LIANG Ying, et al (171)
Nonlinear characteristic measure of gearbox faults and their category identification with TWSVM	ZENG Ke, BO Lin (179)
Dynamic responses of underground openings with end weakened by holes and anchor top reinforced by dense rock bolts under different explosion forces	WANG Guangyong, CHEN Anmin, XU Jingmao (185)
Damage and failure of steel square tubes under lateral local explosion loading and their influencing factors	YU Yang, JI Chong, ZHOU You, et al (191)
Two-way fluid-structure coupled analysis for dynamic responses of steel tanks under vapor cloud explosion	HU Ke, ZHAO Yang, WANG Gang, et al (199)
Vehicles' BWIM based on virtual simply-supported beam method	DENG Lu, SHI Hai, HE Wei, et al (209)
Commercial vehicle suspension system optimization based on improved multi-objective particle swarm optimization algorithm	FAN Zhengwu, WANG Tie, WANG Yonghong, et al (216)
Random characteristics for vertical dynamic reaction force of pier-top of a simply supported girder bridge based on train-bridge random vibration model	ZHU Zhihui, HUANG Chengzhi, WANG Lidong, et al (225)
Indirect inverse sub-structure method for multi-point rigid coupling product packaging and transportation systems	MENG Tianya, LI Mingyu, GUO Dong, et al (233)
Order analysis and amplitude prediction of torque ripple in hub permanent magnet synchronous motors based on measured phase current	MAO Yu, ZUO Shuguang, DENG Wenzhe, et al (239)
Structural mass and stiffness damage identification based on TSA with fractional dimension embedded	ZHAO Yilin, LIU Jike, DING Zhenghao, et al (246)
Parametric sensitivity analysis in simulation of residual displacements for RC bridge piers	ZHAO Taiyi, SUN Zhiguo, WANG Dongsheng, et al (251)
Adaptive fuzzy sliding mode control for vehicle active suspension systems considering system uncertainty	PANG Hui, LIANG Jun, WANG Jianping, et al (261)
Vibration analysis for plate-shell coupled structures under complex boundary conditions	DAI Lu, LIN Yuansheng, LIU Yong, et al (270)
Small scale effect of a simply supported graphene sheet's dynamic response	XIE Genquan, WANG Jianping, ZHANG Qilong (277)

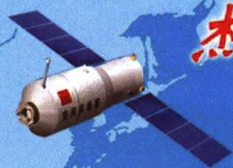
JOURNAL OF VIBRATION AND SHOCK

Vol. 37 No. 15 AUGUST 2018

Editorial Office: 1954 Huashan Rd. Shanghai, 200030, China

Issuer Abroad: China National Publishing Industry Trading Corporation

(Post-Office Box No. 728, Beijing, China)



杰出的动态性能
准确的捕捉瞬态信号

扬州英迈克测控技术有限公司

Y M C P I E Z O T R O N I C S I N C

YMC石英力/压力传感器系列



动态力传感器/动态压力传感器

◎高强度 ◎动态范围宽 ◎上升时间快