

原书缺封面

目 次

基于激光激励技术的结构损伤成像 裘进浩, 张 超, 季宏丽, 吴郁程, 朱孔军 (603)

基于改进粒子群算法的应变传感器优化布置 李德春, 何龙军, 陈媛媛, 欧阳秋平 (610)

基于 KPCA 和 PSOSVM 的异步电机故障诊断 李 平, 李学军, 蒋玲莉, 曹宇翔 (616)

基于扭摆振动的转动惯量识别方法 赵 岩, 唐文彦, 张晓琳, 王 军 (621)

强脉冲干扰非线性混叠转子故障信号分离 苗 锋, 赵荣珍 (625)

螺纹联轴器的建模及其不对中故障研究 李凌轩, 姚红良, 刘子良, 闻邦椿 (631)

基于声音信号的结构损伤识别方法..... 瞿金秀, 杨飞宇, 张周锁, 何正嘉 (638)

拉杆转子临界转速随拉紧力变化规律试验 何 鹏, 刘占生, 黄飞淋, 刘镇星 (644)

不同自由度耦合斜齿轮转子系统的振动特性 马 辉, 王奇斌, 黄 婧, 张义民 (650)

双晶悬臂梁压电发电装置发电能力的仿真 龚俊杰, 许颖颖, 阮志林, 边义祥 (658)

基于灰色线性回归组合模型的故障率预测 邵延君, 潘宏侠, 马春茂, 刘永姜 (664)

基于小波包的全信息解调方法及其应用 巩晓赞, 杨春燕, 韩 捷, 陈 宏 (668)

集成对称模糊数及有限元法的切削力预测 胡艳娟, 王占礼, 董 超, 王 尧, 李 静 (673)

钢轨-扣件耦联系统的动力特性试验 赵才友, 王 平 (680)

动基座下 DGCMG 框架伺服系统干扰补偿控制 韩邦成, 杨莲慧, 李海涛 (686)

车内噪声传递率建模及计算 王彬星, 郑四发, 李传兵, 连小珉 (693)

基于遗传退火优化 MSVM 的齿轮箱故障诊断 陈法法, 汤宝平, 马婧华, 尹爱军 (699)

基于流形学习方法的汽轮机组振动特征提取 何 青, 解芳芳, 李 红, 蓝 澜 (705)

基于 Vortex 与 Vega Prime 的车辆模拟器动力学与视景仿真 罗竹辉, 周晓军, 魏燕定 (709)

连接界面不定性对筋板结构中频振动的影响 纪 琳, 黄震宇 (714)

基于形态学小波包降噪的管母挠度监测方法 唐贵基, 邓飞跃, 何玉灵, 彭 涛, 冯 奇 (720)

双层隔振系统模态匹配分析及其振动特性 孙玉华, 董大伟, 闫 兵, 孙梅云, 高 峰 (727)

风电叶片单点疲劳加载过程数值仿真与试验 张磊安, 黄雪梅, 王 娜, 孔晓佳 (732)

含摩擦的汇流传动齿轮非线性动力学分析 郜浩冬, 张以都 (737)

钻柱信道中声信号传输的接收特性分析 李 成, 刘 钊, 樊尚春, 井中武 (744)

ACCC 塔线体系在风荷载作用下的动力响应 鞠彦忠, 门丽丽, 衣亚伟 (749)

暂态扭矩在多支承转子系统中的传递特性 宋高峰, 杨兆建, 张文静 (753)

磁致伸缩导波激励传感器模型及输出特性	龙盛蓉, 钟毓宁, 宋小春, 李志农, 刘 莹 (757)
栓接结合部迟滞非线性建模与辨识方法	李 玲, 蔡安江, 阮晓光, 蔡力钢 (762)
基于支持向量回归的轴承故障定量诊断应用	鞠 华, 沈长青, 黄伟国, 李 双, 朱忠奎 (767)
第 34 卷第 4 期英文摘要	(772)

广告·信息

欢迎订阅《振动、测试与诊断》(692) 欢迎参加第 11 届压电材料及其在作动器上的应用国际研讨会暨第 9 届能量收集国际研讨会 (726) 《振动、测试与诊断》被《中国学术期刊文摘》收录 (736) 新书推荐:《现代机械设计师手册》(743) 扬州英迈克测控技术有限公司 (786) 优泰动态信号分析系统 (787) 北京汇润科贸有限公司 (788, 789) 东方振动和噪声技术研究所 (790)

振动、测试与诊断 (双月刊)
ZHENDONG CESHI YU ZHENDUAN

第 34 卷 第 4 期
2014 年 8 月出版

责任编辑: 王 平

主 管	中华人民共和国工业和信息化部	印 刷	南京航空航天大学印刷厂
主 办	南京航空航天大学 全国高校机械工程测试技术研究会	发 行	江苏省邮政局
主 编	赵淳生 (中科院院士)	邮发代号	28-239
编辑出版	《振动、测试与诊断》编辑部	发行范围	公 开 发 行
地 址	南京市御道街 29 号	电 话	(025)84893332
邮 编	210016	E - mail	qchen@nuaa.edu.cn
		网 址	http://zdc.nuaa.edu.cn
		创刊日期	1980 年 10 月

中国标准连续出版物号: $\frac{\text{ISSN1004-6801}}{\text{CN32-1361/V}}$ 广告经营许可证号: (94) 工商广临字 041 号 国内定价: 20.00 元

CONTENTS

Damage Imaging for Plate Structures Based on Laser Excitation	
.....	<i>Qiu Jinhao, Zhang Chao, Ji Hongli, Wu Yucheng, Zhu Kongjun</i> (603)
Optimal Strain Sensor Placement Based on an Improved Particle Swarm Optimization Algorithm	
.....	<i>Li Dechun, He Longjun, Chen Yuanyuan, Ouyang Qiuping</i> (610)
Fault Diagnosis of Asynchronous Motor Based on KPCA and PSOSVM	
.....	<i>Li Ping, Li Xuejun, Jiang Lingli, Cao Yuxiang</i> (616)
Identification Method for Moment of Inertia Based on Torsion Pendulum	
.....	<i>Zhao Yan, Tang Wenyan, Zhang Xiaolin, Wang Jun</i> (621)
Separation of Nonlinear Mixed Rotor Fault Signals with Violent Pulse Interferences	
.....	<i>Miao Feng, Zhao Rongzhen</i> (625)
Modeling of the Threaded Coupling and Research on Misalignment Failure of Rotor System	
.....	<i>Li Lingxuan, Yao Hongliang, Liu Ziliang, Wen Bangchun</i> (631)
Identification Method for Structural Damage Based on Acoustic Signal	
.....	<i>Qu Jinxiu, Yang Feiyu, Zhang Zhousuo, He Zhengjia</i> (638)
Experimental Study of the Variation of Tie-bolt Fastened Rotor Critical Speeds With Tighten Force	
.....	<i>He Peng, Liu Zhansheng, Huang Feilin, Liu Zhenxing</i> (644)
Vibration Characteristics Analysis of a Helical Gear Rotor System Considering Different	
Degrees of Freedom Coupling	<i>..... Ma Hui, Wang Qibin, Huang Jing, Zhang Yimin</i> (650)
Simulation on Generating Capacity for Energy Harvesting Device with Piezoelectric Bimorph	
Cantilever	<i>..... Gong Junjie, Xu Yingying, Ruan Zhilin, Bian Yixiang</i> (658)
Failure Rate Prediction Based on the Grey Linear Regression Model	
.....	<i>Shao Yanjun, Pan Hongxia, Ma Chunmao, Liu Yongjiang</i> (664)
Full Information Demodulation Method Based on the Wavelet Packet and Its Application	
.....	<i>Gong Xiaoyun, Yang Chunyan, Han Jie, Chen Hong</i> (668)
The Cutting Force Predication Based on Integration of Symmetric Fuzzy Number and Finite	
Element Method	<i>..... Hu Yanjuan, Wang Zhanli, Dong Chao, Wang Yao, Li Jing</i> (673)
Experimental Study on Dynamic Characteristics of Rail-Fastener Coupled System	
.....	<i>Zhao Caiyou, Wang Ping</i> (680)
Disturbance Compensation Control of Gimbal Servo System for DGCMG Used in Spacecraft	
.....	<i>Han Bangcheng, Yang Lianhui, Li Haitao</i> (686)
Vehicle Interior Noise Transmissibility Modeling and Calculation	
.....	<i>Wang Binxing, Zheng Sifa, Li Chuanbing, Lian Xiaomin</i> (693)
Gearbox Fault Diagnosis Based on Multi-kernel Support Vector Machine Optimized by Genetic	
Simulated Annealing Algorithm	<i>..... Chen Fafa, Tang Baoping, Ma Jinghua, Yin Aijun</i> (699)

Feature Extraction of Vibration of Turbine Unit Based on Manifold Learning Method
..... He Qing , Xie Fangfang , Li Hong , Lan Lan (705)

Dynamic and Visual Simulation of Vehicle Driving Simulator Based on Vortex and Vega Prime
..... Luo Zhuhui , Zhou Xiaojun , Wei Yanding (709)

Interface Uncertainty Effects on the Mid-frequency Vibration of Rib-stiffened Plates
..... Ji Lin , Huang Zhenyu (714)

Tube Busbar Deflection Monitoring Method Based on Morphology Wavelet Package Denoising
..... Tang Guiji , Deng Feiyue , He Yuling , Peng Tao , Feng Qi (720)

Modal Matching Analysis and Vibration Characteristics of Two-Stage Vibration Isolation System
..... Sun Yuhua , Dong Dawei , Yan Bing , Sun Meiyun , Gao Feng (727)

Numerical Simulation and Test on MW Wind Turbine Blade Single Fatigue Loading Process
..... Zhang Leian , Huang Xuemei , Wang Na , Kong Xiaojia (732)

Nonlinear Dynamics Analysis of Convergent Transmission Gear Containing Friction
..... Gao Haodong , Zhang Yidu (737)

Channel Receiving Characteristics for Transmitted Acoustic Signal in a Drill String
..... Li Cheng , Liu Zhao , Fan Shangchun , Jing Zhongwu (744)

Aluminum Conductor Composite Core Wire Transmission Line Towers and Lines System in
the Dynamic Response Under Wind Loads Jü Yanzhong , Men Lili , Yi Yawei (749)

Transfer Characteristics of the Transient Torque Excitation in Multi-support Rotor System
..... Song Gaofeng , Yang Zhaojian , Zhang Wenjing (753)

Exciting Model and Output Characteristics of Magnetostrictive Sensor for Guided Wave
..... Long Shengrong , Zhong Yuning , Song Xiaochun , Li Zhinong , Liu Ying (757)

Modeling and Identification Method for Hysteresis Nonlinear of Joint Interfaces
..... Li Ling , Cai Anjiang , Ruan Xiaoguang , Cai Ligang (762)

Quantitative Diagnosis of Bearing Fault Based on Support Vector Regression
..... Jü Hua , Shen Changqing , Huang Weiguo , Li Shuang , Zhu Zhongkui (767)

Abstracts of Vol. 34 No. 4 in English (772)

Journal of Vibration, Measurement & Diagnosis(Bimonthly)

Vol. 34	No. 4	Publishing Date	Aug. 2014	Start Publication	October 1980
Responsible Institution	Ministry of Industry and Information Technology of the People's Republic of China			Printed by	NUAA Printing House
				Address	29 Yudao Street, Nanjing, China
Sponsored by	Nanjing University of Aeronautics & Astronautics University Association of Mechanics Engineering Measurement Technology			Zipcode	210016
				Tel	(025)84893332
				E-mail	qchen@nuaa.edu.cn
				Website	http://zdc.nuaa.edu.cn
Edited & Published by	Editorial Department of JVMD			Distributed by	Jiangsu Province Post Bureau
Editor in Chief	Zhao Chunsheng			Post Office Distribution Code	28-239

原书缺封底