

ISSN 1004—4523  
CODEN ZXUEEA

# 振动工程学报

JOURNAL OF VIBRATION ENGINEERING

第26卷 第5期  
Vol.26 No.5



5

2013

ISSN 1004-4523



9 771004 452072

中国振动工程学会主办

# 振动工程学报

2013 年 10 月

第 26 卷第 5 期

## 目 次

- 流体隔振浮筏反共振特性的试验研究 ..... 徐道临, 刘怀远, 刘春嵘(641)  
功能梯度圆柱壳非线性振动中的模态相互作用 ..... 杜长城, 李映辉(647)  
NGW 型行星轮系模态特性及参数敏感性研究 ..... 魏 静, 吕 程, 孙 伟, 等(654)  
球轴承-螺旋锥齿轮系统多体接触动力学分析 ..... 姚廷强, 王立华, 迟毅林, 等(665)  
三角形网格圆柱结构的轴向冲击力学性能 ..... 林晓虎, 杨庆生(678)  
高速列车载荷频率传递特性研究 ..... 刘永乾, 任尊松(687)  
位移干扰下液体静压导轨的被动振动分析 ..... 赵建华, 高殿荣, 张作超(693)  
自由弹性机翼跨音速阵风响应分析 ..... 顾 宁, 陆志良, 郭同庆(700)  
大跨斜拉桥多点激励随机地震响应研究 ..... 焦常科, 李爱群(707)  
多运动参量时域复现的地震模拟控制方法研究 ..... 田 铨, 陈章位(715)  
加层隔震结构隔震支座参数优化及试验研究 ..... 王曙光, 赵学斐, 苗启松, 等(722)  
考虑成层土剪切效应的相邻桩基动力相互作用 ..... 王 珏, 周 叮, 刘伟庆, 等(732)  
多目标粒子群优化的支持向量机及其在齿轮故障诊断中的应用 ..... 王维刚, 刘占生(743)  
LMD 能量矩和变量预测模型模式识别在轴承故障智能诊断中的应用  
..... 程军圣, 罗颂荣, 杨 斌, 等(751)  
自适应 Hessian LLE 在机械故障特征提取中的应用 ..... 李城梁, 王仲生, 姜洪开, 等(758)  
改进二叉树支持向量机及其故障诊断方法研究 ..... 赵海洋, 徐敏强, 王金东(764)  
多阶 FRFT 自适应滤波及齿轮微弱故障特征提取 ..... 梅检民, 肖云魁, 沈 虹, 等(771)  
改进二阶统计量算法在风力机主轴承裂纹识别中的应用 ..... 周 勃, 孟 强, 刘 欢, 等(779)  
最大熵与交叉熵在平面磨削颤振预测中的研究 ..... 董新峰, 张为民, 李 冰(786)  
布朗粒子随机共振的能量传递与转换关系 ..... 林 敏, 黄咏梅(792)  
PVDF 阵列构建结构声辐射有源控制误差传感策略 ..... 马奎越, 陈克安, 玉昊昕, 等(797)

期刊基本参数:CN32-1349/TB \* 1987 \* b \* A4 \* 166 \* zh \* P \* ¥20.00 \* 1500 \* 21 \* 2013-10

# JOURNAL OF VIBRATION ENGINEERING

Oct. 2013

Vol. 26 No. 5

## CONTENTS

- Experimental study on the anti-resonance characteristic of fluid-type floating raft ..... XU Dao-lin, LIU Huai-yuan, LIU Chun-rong (641)
- Mode interaction in nonlinear vibration of functionally graded cylindrical shells ..... DU Chang-cheng, LI Ying-hui (647)
- Study on the mode characteristics and parameter sensitivity for NGW planetary gear system ..... WEI Jing, LÜ Cheng, SUN Wei, et al (654)
- Multibody contact dynamics analysis on ball bearing-spiral bevel gears ..... YAO Ting-qiang, WANG Li-hua, CHI Yi-lin, et al (665)
- Mechanical behavior of triangle-grid cylindrical structure under axial impact loads ..... LIN Xiao-hu, YANG Qing-sheng (678)
- Research on the transference characteristics of loads frequencies of high-speed vehicle ..... LIU Yong-qian, REN Zun-song (687)
- Passive vibration analysis of liquid hydrostatic slide under displacement perturbation ..... ZHAO Jian-hua, GAO Dian-rong, ZHANG Zuo-chao (693)
- Gust response analysis of free elastic wing in the transonic flight regime ..... GU Ning, LU Zhi-liang, GUO Tong-qing (700)
- Research on random seismic response of long-span cable-stayed bridge under multi-excitation ..... JIAO Chang-ke, LI Ai-qun (707)
- Research of earthquake simulation control of multi-movement parameters replication ..... TIAN Pan, CHEN Zhang-wei (715)
- Parameter optimization of isolator in structure with added floors and related shaking table tests ..... WANG Shu-guang, ZHAO Xue-fei, MIAO Qi-song, et al (722)
- Dynamic interaction between adjacent piles considering soil shear effect in layered foundation ..... WANG Jue, ZHOU Ding, LIU Wei-qing, et al (732)
- Support vector machine optimized by multi-objective particle swarm and application in gear fault diagnosis ..... WANG Wei-gang, LIU Zhan-sheng (743)
- LMD energy moment and variable predictive model based class discriminate and their application in intelligent fault diagnosis of roller bearing ..... CHENG Jun-sheng, LUO Song-rong, YANG Bin, et al (751)
- Adaptive Hessian LLE in mechanical fault feature extraction ..... LI Cheng-liang, WANG Zhong-sheng, JIANG Hong-kai, et al (758)
- An improved binary tree SVM and application for fault diagnosis ..... ZHAO Hai-yang, XU Min-qiang, WANG Jin-dong (764)
- Multi-order FRFT adaptive filter and its application to extract weak fault feature based on sparse signal decomposition ..... MEI Jian-min, XIAO Yun-kui, SHEN Hong, et al (771)
- Application on crack identification for main bearing of wind turbine according to improved second-order statistics algorithm ..... ZHOU Bo, MENG Qiang, LIU Huan, et al (779)
- A method of surface grinding chatter predicting based on maximum entropy and cross entropy ..... DONG Xin-feng, ZHANG Wei-min, LI Bing (786)
- The energy transfer and conversion of Brownian particle stochastic resonance ..... LIN Min, HUANG Yong-mei (792)
- Error sensing strategy for active control of panel radiated sound using PVDF arrays ..... MA Xi-yue, CHEN Ke-an, YU Hao-xin, et al (797)