

# 振动工程学报

2020年6月

第33卷第3期

## 目次

- 双曲率组合结构自由振动特性分析 ..... 庞福振, 李海超, 彭德炜, 等(441)
- 基于 Polar 插值改进的结构振动信号压缩采样正交匹配追踪恢复算法 ..... 康杰, 段忠东(450)
- 压电-电磁复合振动俘能器的耦合负载特性及俘能性能 ..... 张振振, 姜军强, 贾振, 等(459)
- 一种 VSSFxLMS 算法及其在多自由度微振动控制中的应用 ..... 方昱斌, 朱晓锦, 胡佳明, 等(467)
- 自保护隔震支座力学性能试验研究 ..... 滕晓飞, 谭平, 周林丽, 等(477)
- 刚度-质量-阻尼综合优化的船舶减振统一阻抗模型法 ..... 杨德庆, 杨康, 王博涵(485)
- 结构半主动控制磁流变阻尼器流变学模型研究 ..... 张振凯, 彭勇波(494)
- 圆形高耸结构两级变阻尼 TMD 风振控制 ..... 贺辉, 谭平, 刘彦辉, 等(503)
- 随机行人荷载下结构动力可靠度分析 ..... 贾宇婷, 杨娜, 白凡, 等(509)
- 考虑螺栓连接刚度不确定性的带法兰-圆柱壳结构频响函数分析 ..... 李坤, 曾劲, 于明月, 等(517)
- 虚拟功能梯度材料表征栓接结合部动态特性 ..... 李玲, 王晶晶, 史小辉, 等(525)
- 对称铺设碳纤维复合板振动特性等效建模 ..... 王嘉伟, 黄震宇, 纪琳, 等(533)
- 非稳态横风对货运动车组车体-集装箱系统横向振动特性的影响 ..... 薛蕊, 任尊松, 查浩, 等(540)
- 附加弹簧保护装置的悬索主共振响应分析 ..... 张鹏, 卢文胜, 吕西林(550)
- 风雨激振中斜拉索表面水线运动的三维数值模拟 ..... 王剑, 毕继红, 关健, 等(559)
- 传统风格建筑钢-混凝土组合结构枋-柱节点力学性能及地震损伤评估试验研究  
..... 董金爽, 隋堯, 薛建阳, 等(570)
- 强噪声背景下滚动轴承微弱故障特征信号的经验模态分解 ..... 杨建华, 韩帅, 张帅, 等(582)
- 双约束非负矩阵分解的复合故障信号分离方法 ..... 王华庆, 王梦阳, 宋浏阳, 等(590)
- 局部点蚀故障滚动体的滚动轴承动力学模型研究 ..... 李志农, 李云龙, 任帅, 等(597)
- 滚动轴承故障诊断的最优加权路图 GFT 冲击提取方法 ..... 王好将, 于德介, 高艺源(604)
- 源域多样本集成 GFK 的不同工况下滚动轴承寿命状态识别 ..... 陈仁祥, 陈思扬, 胡小林, 等(614)
- 移不变时频流形自学习的旋转机械故障特征增强 ..... 李泉昌, 何清波, 邵毅敏, 等(622)
- 融合 CEEMD\_MPE 和 GK 模糊聚类的故障识别方法 ..... 赵荣珍, 孙泽金(629)
- 经验快速谱峭度及其在滚动轴承故障诊断中的应用 ..... 张坤, 胥永刚, 马朝永, 等(636)

期刊基本参数:CN32-1349/TB \* 1987 \* b \* A4 \* 202 \* zh \* P \* ¥40.00 \* 1500 \* 24 \* 2020-06

## CONTENTS

Free vibration analysis of joined doubly-curved shells of revolution .....	PANG Fu-zhen, LI Hai-chao, PENG De-wei, et al(441)
An improved OMP algorithm with Polar interpolation for structural vibration signals recovery by compressed measurements .....	KANG Jie, DUAN Zhong-dong (450)
Energy harvesting performance and coupling load effect of a novel hybrid piezoelectric-electromagnetic vibration energy harvester .....	ZHANG Zhen-zhen, LOU Jun-qiang, JIA Zhen, et al(459)
A VSSFxLMS algorithm and its application in multiple DOF micro-vibration control .....	FANG Yu-bin, ZHU Xiao-jin, HU Jia-ming, et al(467)
Experimental investigation on mechanical properties of self-protection isolation bearing .....	TENG Xiao-fei, TAN Ping, ZHOU Lin-li, et al(477)
A unified impedance modelling method for ship structural dynamics synthetic layout optimization design .....	YANG De-qing, YANG Kang, WANG Bo-han(485)
Rheological models of MR dampers applied in semi-active control of structures .....	ZHANG Zhen-kai, PENG Yong-bo(494)
Wind-induced vibration control of circular section high-rise structures employing TMD with two-stage damping level .....	HE Hui, TAN Ping, LIU Yan-hui, et al(503)
Dynamic reliability analysis of structures under stochastic human-induced loads .....	JIA Yu-ting, YANG Na, BAI Fan, et al(509)
Frequency response function analysis of flanged cylindrical shell structure with uncertainty of bolted connection stiffness .....	LI Kun, ZENG Jin, YU Ming-yue, et al(517)
Dynamic properties of bolted joints characterized by functionally gradient virtual materials method .....	LI Ling, WANG Jing-jing, SHI Xiao-hui, et al(525)
Dynamic modeling of symmetry-ply carbon fiber composite plates based on a new developed equivalent method .....	WANG Jia-wei, HUANG Zhen-yu, JI Lin, et al(533)
The lateral vibration characteristic of the carbody-container coupled model of high-speed freight EMU under unsteady crosswind .....	XUE Rui, REN Zun-song, ZHA Hao, et al(540)
Primary resonance responses study of suspended cables with supplemental spring-protection devices .....	ZHANG Peng, LU Wen-sheng, LÜ Xi-lin(550)
Three-dimensional numerical simulation on rivulet movement of rain-wind induced vibration of stay cable .....	WANG Jian, BI Ji-hong, GUAN Jian, et al(559)
Mechanical behavior study and earthquake damage evaluation of viscous damper on Chinese traditional style structure with lintel-column joint of steel and composite structures .....	DONG Jin-shuang, SUI Yan, XUE Jian-yang, et al(570)
Empirical mode decomposition of weak fault characteristic signal of rolling bearing under strong noise background .....	YANG Jian-hua, HAN Shuai, ZHANG Shuai, et al(582)
Method of compound fault signal separation using double constraints non-negative matrix factorization .....	WANG Hua-qing, WANG Meng-yang, SONG Liu-yang, et al(590)
Research on dynamic model of rolling bearing with local pitting fault in rolling bearing element .....	LI Zhi-nong, LI Yun-long, REN Shuai, et al(597)
Impulse extraction by optimal weighted path GFT method for roller bearing fault diagnosis .....	WANG Hao-jiang, YU De-jie, GAO Yi-yuan(604)
Life status identification of rolling bearing under different working condition based on multi- source integrated GFK .....	CHEN Ren-xiang, CHEN Si-yang, HU Xiao-lin, et al(614)
Fault feature enhancement of rotating machinery via shift-invariant time-frequency manifold self-learning .....	LI Quan-chang, HE Qing-bo, SHAO Yi-min, et al(622)
Method of fault identification based on fusion of CEEMD_MPE and GK fuzzy clustering .....	ZHAO Rong-zhen, SUN Ze-jin(629)
Empirical fast kurtogram and its application in rolling bearing fault diagnosis .....	ZHANG Kun, XU Yong-gang, MA Chao-yong, et al(636)