

## 目次

计入关节摩擦的空间桁架结构动力学建模及共振分析 .....刘福寿,徐文婷,金栋平,等(663)

消能减震建筑结构模态参数识别的贝叶斯方法 .....杨朋超,薛松涛,谢丽宇(671)

桥梁结构模态参数识别中系统阶次的自动辨识算法 .....陈永高,钟振宇(680)

多参考最小二乘复频域法的数值问题分析及优化 .....章国稳,汤宝平,陈卓(690)

工业机器人重载下关节变形补偿 .....毛晨涛,张翔,祖洪飞,等(697)

混合修形斜齿轮转子系统振动特性分析 .....赵百顺,李娜,马辉,等(704)

不同应变条件下橡胶颗粒-砂混合土动模量和阻尼比的联合试验研究 .....刘启菲,庄海洋,吴琪,等(712)

深厚覆盖层液化对场地卓越周期及土石坝地震响应影响研究 .....刘升欢,宋志强,王飞,等(721)

考虑水-结构-土相互作用下深水圆柱的地震响应分析 .....黄义铭,赵密,王丕光,等(730)

强风作用下超大型冷却塔结构失效准则与强健性分析 .....王飞天,柯世堂,王晓海,等(739)

均匀热载荷作用下功能梯度圆板的非线性振动 .....蹇越傲,马连生(748)

随机与谐和联合激励下分数阶非线性系统的统计线性化方法 .....孔凡,晁盼盼,徐军,等(756)

多稳态压电振动能量采集器的非线性动力学特性及其实验研究 .....谭江平,王光庆,鞠洋,等(765)

多稳态电磁俘能系统的非线性动力学实验研究 .....高鸣源,李守太,孙玉华,等(775)

垂荡激励下船用旋转机械-气囊隔振系统的非线性振动机理 .....杜晓蕾,李明(782)

城市轨道交通列车-桥梁系统动力响应数值分析及现场测试 .....王少钦,曹明盛,李宇杰,等(790)

考虑剪力铰作用的预制短型钢弹簧浮置板轨道动力响应研究 .....朱志辉,黄宇佳,黄承志,等(799)

老化-荷载下叠层轮胎隔震垫恢复力模型研究 .....张广泰,王明阳,张文梅,等(809)

杠杆式调谐质量阻尼器对双吊索尾流致振的减振优化 .....杨维青,华旭刚,温青,等(819)

集成式动力总成振动噪声分析与主动控制研究 .....赵玲玲,魏静,张爱强,等(828)

交变磁场对制动器摩擦噪声抑制的试验研究 .....鲍久圣,董慧丽,阴妍,等(838)

随机卷积神经网络的内燃机健康监测方法研究 .....王瑞涵,陈辉,管聪(849)

改进IESFOgram的滚动轴承故障特征提取 .....陈鑫,郭瑜,伍星,等(861)

自适应噪声加权优选经验模态分解及其在机械故障诊断中的应用 .....郑近德,苏缪涎,潘海洋,等(869)

## CONTENTS

Dynamic modeling and resonance analysis of space truss structures with frictional joints  
.....LIU Fu-shou, XU Wen-ting, JIN Dong-ping, et al(663)

Bayesian modal parameters identification of passively controlled building structures  
.....YANG Peng-chao, XUE Song-tao, XIE Li-yu(671)

Automatic identification algorithm of system order in modal parameter identification for bridge structures  
.....CHEN Yong-gao, ZHONG Zhen-yu(680)

Numerical analysis and optimization of poly-reference least-squares complex frequency-domain method  
.....ZHANG Guo-wen, TANG Bao-ping, CHEN Zhuo(690)

A joint deformation compensation method for heavy-load industrial robots  
.....MAO Chen-tao, ZHANG Xiang, ZU Hong-fei, et al(697)

Vibration characteristics of the helical gear rotor system considering mixed modification  
.....ZHAO Bai-shun, LI Na, MA Hui, et al(704)

Dynamic shear modulus and damping ratio of rubber-sand mixtures in different range of shearing strain amplitudes  
.....LIU Qi-fei, ZHUANG Hai-yang, WU Qi, et al(712)

Influence of liquefaction of deep overburden on the site predominant period and seismic response of the earth-rock dam  
.....LIU Sheng-huan, SONG Zhi-qiang, WANG Fei, et al(721)

Earthquake and wave analysis of the circular cylinder considering water-structure-soil interaction  
.....HUANG Yi-ming, ZHAO Mi, WANG Pi-guang, et al(730)

Structural failure criterion and robustness analysis of super-large cooling towers subjected to strong winds  
.....WANG Fei-tian, KE Shi-tang, WANG Xiao-hai, et al(739)

Nonlinear vibration of functionally graded circular plates subjected to uniform thermal loading  
.....JIAN Yue-ao, MA Lian-sheng(748)

Statistical linearization method for nonlinear Duffing oscillator under combined random and harmonic excitations  
.....KONG Fan, CHAO Pan-pan, XU Jun, et al(756)

Nonlinear dynamic characteristics and experimental validation of a multi-stable piezoelectric vibration energy harvester  
.....TAN Jiang-ping, WANG Guang-qing, JU Yang, et al(765)

Experimental study of non-linear dynamics of multi-stable electromagnetic energy harvesting system  
.....GAO Ming-yuan, LI Shou-tai, SUN Yu-hua, et al(775)

Mechanism of nonlinear vibration of the marine rotating machinery with air-bag system under heaving motion  
.....DU Xiao-lei, LI Ming(782)

Numerical analysis and test of dynamic responses of train-bridge system in urban rail transit  
.....WANG Shao-qin, CAO Ming-sheng, LI Yu-jie, et al(790)

Dynamic response of prefabricated short steel spring floating slab tracks considering shearing hinge  
.....ZHU Zhi-hui, HUANG Yu-jia, HUANG Cheng-zhi, et al(799)

Restoring force model of scarp tire rubber pads under aging-load coupling  
.....ZHANG Guang-tai, WANG Ming-yang, ZHANG Wen-mei, et al(809)

Optimal design of lever-type tuned mass dampers for control of wake-induced vibrations of coupled twin-cable hangers  
.....YANG Wei-qing, HUA Xu-gang, WEN Qing, et al(819)

Vibro-acoustic analysis and active control of integrated powertrain systems  
.....ZHAO Ling-ling, WEI Jing, ZHANG Ai-qiang, et al(828)

Experimental analysis on alternating magnetic field to suppress friction noise of brake  
.....BAO Jiu-sheng, DONG Hui-li, YIN Yan, et al(838)

Health monitoring method of the internal combustion engine based on the Random Convolutional Neural Networks  
.....WANG Rui-han, CHEN Hui, GUAN Cong(849)

Feature extraction of faulty rolling element bearing based on improved IESFOgram  
.....CHEN Xin, GUO Yu, WU Xing, et al(861)

Weighted mean-optimized empirical mode decomposition with adaptive noise and its applications in mechanical fault diagnosis  
.....ZHENG Jin-de, SU Miao-xian, PAN Hai-yang, et al(869)