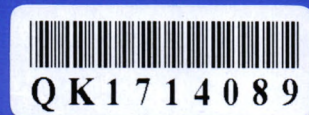


ISSN 1004-4523
CODEN ZXUEEA



振动工程学报

JOURNAL OF VIBRATION ENGINEERING

第30卷 第3期
Vol.30 No.3



3

2017

中国振动工程学会主办

ISSN 1004-4523



目次

基于频响函数截断奇异值响应面的有限元模型修正	张勇, 侯之超, 赵永玲(341)
基于等效静载荷和模态跟踪的结构拓扑优化	滕晓艳, 江旭东, 孙艳想, 等(349)
角接触滚动轴承打滑预测模型	韩勤锴, 褚福磊(357)
基于速度协调法的齿轮碰撞动力学分析	刘富豪, 张亮, 蒋汉军, 等(367)
轴向运动压电纳米板的非局部热-力-电耦合振动	沈纪革, 刘金建, 李成, 等(378)
基于预测函数控制的液压振动伺服系统控制器设计	冯旭刚, 章家岩, 徐培民, 等(389)
有效接触面积刚性连接的结合部建模方法研究	李奇志, 陈国平, 陈文华, 等(397)
动态分布载荷识别中的传感器配置研究	杨帆, 张方, 浦玉学(403)
典型流线桥梁断面缩阶微分方程抖振气动力模型	赵林, 李珂, 闫俊峰, 等(413)
矩形断面主梁涡激振动气动力展向相关性试验研究	刘志文, 黄来科, 陈政清(422)
基于残余应力的复合阻尼模型及在RC梁损伤分析中的应用	杨慧, 闫维明, 何浩祥(432)
地铁列车进站引起场地柱面纵向振动	张谦, 陈文化(442)
采用轨道式负刚度装置的结构减震控制研究	孙彤, 李宏男, 赖志路, 等(449)
基于规范反应谱的全非平稳地震动过程模拟	刘章军, 刘子心(457)
基于强震观测和多输出支持向量机的混凝土坝材料动参数反演	程琳, 王冬冬, 杨杰, 等(466)
实现波能装置共振的方法研究	蔡元奇, 沈理姣, 李明方(475)
超音速空腔噪声非线性数值模拟及影响因素研究	王芳丽, 王一丁, 童明波, 等(483)
一种细节信号提取方法及其在信号处理的应用	李洪儒, 孙健, 王成威, 等(493)
广义变分模态分解方法及其在变工况齿轮故障诊断中的应用	郑近德, 潘海洋, 杨树宝, 等(502)
利用稀疏盲源分离方法的叶片裂纹特征提取	李宏坤, 贺长波, 于刚, 等(510)
融合字典学习的滑动轴承摩擦故障趋势自记忆预测	张峻宁, 张培林, 张云强, 等(519)

CONTENTS

Finite element model updating based on response surface of the truncated singular values of frequency response functions ZHANG Yong, HOU Zhi-chao, ZHAO Yong-lin (341)

Structural topology optimization using equivalent static load and mode-tracking TENG Xiao-yan, JIANG Xu-dong, SUN Yan-xiang, et al (349)

A nonlinear dynamic model to predict skidding behavior of angular contact ball bearings HAN Qin-kai, CHU Fu-lei (357)

Dynamical analysis of collision for gear with velocity-modulated method LIU Fu-hao, ZHANG Liang, JIANG Han-jun, et al (367)

Thermo-electro-mechanical vibration of axially moving piezoelectric nanoplates SHEN Ji-ping, LIU Jin-jian, LI Cheng, et al (378)

PFC optimization control strategy research on hydraulic vibration servo system FENG Xu-gang, ZHANG Jia-yan, XU Pei-min, et al (389)

Study on modeling of structural joints based on effective contact area of rigid connection LI Qi-zhi, CHEN Guo-ping, CHEN Wen-hua, et al (397)

Study on sensor placement for distributed load identification YANG Fan, ZHANG Fang, PU Yu-xue (403)

Reduced differential equation aerodynamic buffeting model of typical streamlined bridge cross-section ZHAO Lin, LI Ke, YAN Jun-feng, et al (413)

Experimental study on spanwise correlation of aerodynamic forces of VIV of the rectangular section girder LIU Zhi-wen, HUANG Lai-ke, CHEN Zheng-qing (422)

The damage analysis of RC beam structure based on the combined damping model of residual stress YANG Hui, YAN Wei-ming, HE Hao-xiang (432)

Cylindrical longitudinal vibration while metro train arriving at station ZHANG Qian, CHEN Wen-hua (442)

Study on structural vibration control using curve-based negative stiffness device SUN Tong, LI Hong-nan, LAI Zhi-lu, et al (449)

Simulation of fully non-stationary ground motion based on seismic design response spectrum LIU Zhang-jun, LIU Zi-xin (457)

Back-analysis method based on strong-motion record and multiple-output support vector machine used to determine the dynamic material parameters of concrete dams CHENG Lin, WANG Dong-dong, YANG Jie, et al (466)

Study on the method of resonance realization for the wave energy converters CAI Yuan-qi, SHEN Li-jiao, LI Ming-fang (475)

Nonlinear numerical simulation and effects of cavity noise in supersonic WANG Fang-li, WANG Yi-ding, TONG Ming-bo, et al (483)

A subtle signal extraction method and its application in the signal processing LI Hong-ru, SUN Jian, WANG Cheng-wei, et al (493)

Generalized variational mode decomposition and its applications to gearbox fault diagnosis under variable conditions ZHENG Jin-de, PAN Hai-yang, YANG Shu-bao, et al (502)

Blade crack feature extraction by using sparse blind source separation algorithm LI Hong-kun, HE Chang-bo, YU Gang, et al (510)

Self-memorization model for predicting the wearing trend of sliding bearing with fusion dictionary learning ZHANG Jun-ning, ZHANG Pei-lin, ZHANG Yun-qiang, et al (519)

中国科技论文统计用期刊
中国科技核心期刊
美国 Ei Compendex 收录用期刊
美国 Applied Mechanics Review 收录用期刊
美国 The Shock and Vibration Digest 收录用期刊
美国 International Aerospace Abstracts 收录用期刊
俄罗斯《文摘杂志》收录用期刊

振动工程学报

ZHENDONG GONGCHENG XUEBAO

(双月刊)

主编: 苏义脑 1987年11月创刊
第30卷第3期 2017年6月出版

JOURNAL OF VIBRATION ENGINEERING

(Bimonthly)

Editor-in-chief: Su Yinao
First Issue: November 1987
Vol. 30 No. 3 Jun. 2017

主 管: 中国科学技术协会
主 办: 中国振动工程学会
(南京市御道街29号, 210016)
编辑出版: 《振动工程学报》编辑部
印 刷: 南京航空航天大学印刷厂
国内发行: 江苏省报刊发行局
国外发行: 中国国际图书贸易总公司
(北京399信箱)

Supervisor: China Association for Science and Technology
Sponsor: Chinese Society for Vibration Engineering
Editor and Publication: Editorial Board of Journal of Vibration Engineering
Printing: NUAA Printing House
Distributors:
Domestic: Jiangsu Bureau for Distribution of Newspapers and Journals
Abroad: China International Book Trading Corp.
(P. O. Box 399 Beijing, China)

编辑部电话:(025)84895885 网址:<http://zdxn.nuaa.edu.cn> E-mail:zdxn@nuaa.edu.cn

刊号: ISSN1004-4523 国内邮发代号:28-249 国外发行代号:4819Q 定价:40.00元
CN32-1349/TB