

## 目 次

### 运行环境航空航天结构动态特性

- 谷神星一号运载火箭的时变模态参数辨识 ..... 马志赛, 丁千, 刘百奇, 等(729)
- 多级多重模态减缩策略及其在转子系统动力学特性分析上的应用 ..... 姚毅, 黄行蓉, 管晓乐, 等(737)
- 机动飞行下磁流变阻尼器-转子系统动力学特性 ..... 王俊, 刘云飞, 秦朝烨, 等(747)
- 直升机超临界尾传动轴干摩擦阻尼器碰摩响应边界特性分析 ..... 金晨, 宋立瑶, 曹鹏, 等(756)
- 飞机刹车诱导颤振稳定性分析与减振设计 ..... 蒋伟, 张明, 尹乔之, 等(770)
- 一维周期基础的带隙解析解及其优化设计研究 ..... 吴巧云, 项复佳, 黄映红, 等(780)
- 考虑海水-海床-斜拉桥相互作用下纵桥向设置BRB的减震作用与优化设计  
..... 陈宝魁, 何世杰, 杜玉杰, 等(789)
- 考虑实测信息的既有规则建筑状态识别与抗震性能快速评估 ..... 单伽锃, 周子杰, 王律己, 等(802)
- 地震作用下调谐黏滞质量阻尼器阻尼比增效效应与优化设计研究 ..... 贺辉, 郝霖霏, 谭平, 等(812)
- 城市轨道交通浮置板轨道纵向联板的动力效应分析 ..... 杨新文, 孙志昂, 张昭, 等(822)
- II型叠合梁斜拉桥涡激振动性能及气动措施研究 ..... 蒋尚君, 朱金, 鲁胜龙, 等(830)
- 均匀流场下平单轴光伏支架扭转气动失稳特征试验研究 ..... 马文勇, 康霄汉, 张晓斌, 等(838)
- 声学黑洞约束阻尼板半解析耦合建模与振动特性研究 ..... 李军军, 李剑辉, 郑玲, 等(847)
- 一种多层组合梁自由振动分析的混合有限元法 ..... 蒋佳卿, 王云, 陈伟球, 等(856)
- 变截面压电悬臂梁能量采集器在高斯白噪声激励下的稳态统计特性研究  
..... 周坤涛, 杨涛, 葛根, 等(864)
- 超临界二氧化碳系统用箔片气体动压轴承静特性研究 ..... 朱鹏程, 管玉坤, 门日秀, 等(875)
- 改进卷积胶囊网络的滚动轴承故障诊断方法 ..... 赵小强, 柴靖轩(885)
- 角度补偿同步平均的二级行星齿轮箱行星轮故障特征提取方法 ..... 晏云海, 郭瑜(896)

## CONTENTS

- Time-varying modal parameter estimation of the CERES-1 launch vehicle  
.....MA Zhi-sai, DING Qian, LIU Bai-qi, et al(729)
- A multi-stage hybrid modal reduction strategy and its application to rotor dynamics analysis  
.....YAO Yi, HUANG Xing-rong, GUANG Xiao-le, et al(737)
- Dynamic characteristics of rotor system with magnetorheological damper during maneuvering flight  
.....WANG Jun, LIU Yun-fei, QIN Zhao-ye, et al(747)
- Boundary characterization of rub-impact response of a helicopter supercritical transmission shaft with  
a dry friction damper .....JIN Sheng, SONG Li-yao, CAO Peng, et al(756)
- Stability analysis and vibration reduction design of aircraft brake induced chatter  
.....JIANG Wei, ZHANG Ming, YIN Qiao-zhi, et al(770)
- Analytical solution of one-dimensional periodic base band gap and its optimal design  
.....WU Qiao-yun, XIANG Fu-jia, HUANG Ying-hong, et al(780)
- Seismic reduction effect and optimal design of BRB in longitudinal bridge direction under seawater-  
seabed-cable stayed bridge interaction .....CHEN Bao-kui, HE Shi-jie, DU Yu-jie, et al(789)
- State identification and seismic performance rapid assessment of existing regular building structures by  
considering field measured information .....SHAN Jia-zeng, ZHOU Zi-jie, WANG Lü-ji, et al(802)
- Effective damping ratio enhancement effect and optimal design of tuned viscous mass damper under  
seismic excitations .....HE Hui, HAO Lin-fei, TAN Ping, et al(812)
- Dynamic effect analysis of longitudinal connecting slab of floating slab track in urban rail transit  
.....YANG Xin-wen, SUN Zhi-ang, ZHANG Zhao, et al(822)
- Vortex-induced vibration performance and aerodynamic countermeasures of II-shaped composite girder  
of a cable-stayed bridge .....JIANG Shang-jun, ZHU Jin, LU Sheng-long, et al(830)
- Experimental investigation on the torsional aerodynamic instability characteristics of single-axis PV  
trackers in smooth flow .....MA Wen-yong, KANG Xiao-han, ZHANG Xiao-bin, et al(838)
- Semi analytical coupling modeling and vibration characteristics of ABH plate with constrained damping layer  
.....LI Jun-jun, LI Jian-hui, ZHENG Ling, et al(847)
- A mixed finite element method for free vibration analysis of multilayer composite beams  
.....JIANG Jia-qing, WANG Yun, CHEN Wei-qiu, et al(856)
- Study on the steady state statistical characteristics of variable-section piezoelectric cantilever energy  
harvester under Gaussian white noise excitation .....ZHOU Kun-tao, YANG Tao, GE Gen, et al(864)
- Static characteristics of gas foil bearing for supercritical carbon dioxide system  
.....ZHU Peng-cheng, GUAN Yu-kun, MEN Ri-xiu, et al(875)
- Improved convolutional capsule network method for rolling bearing fault diagnosis  
.....ZHAO Xiao-qiang, CHAI Jing-xuan(885)
- Angle compensation synchronous averaging for fault feature extraction of planet gear in two-stage  
planetary gearbox .....YAN Yun-hai, GUO Yu(896)