

目次

| | |
|---|------------------------|
| 空间高微重力主动隔振系统动力学建模 | 李宗峰, 刘 强, 任维佳 (1) |
| 基于并行计算的大跨度斜拉桥行车安全分析 | 杜新光, 金先龙, 陈向东 (5) |
| 大跨屋盖脉动风压的非高斯特性研究 | 叶继红, 侯信真 (9) |
| 震源参数对地震动相干函数的影响 | 丁海平, 宋贞霞 (16) |
| 基于贝叶斯估计的结构固有频率不确定性分析 | 易伟建, 刘 翔 (19) |
| 差动式磁悬浮主动隔振系统的控制机理研究 | 宋春生, 胡业发, 周祖德 (24) |
| 路面汽车非平稳激励的时域仿真及小波分析 | 王国林, 胡 蛟, 钱金戈, 等 (28) |
| 分支管流固耦合振动的频域解析解 | 柳贡民, 李艳华, 朱卫华 (33) |
| 起落架摆振主动控制分岔研究 | 陈大伟, 顾宏斌, 刘 晖 (38) |
| 基于制动器多点接触模型的初始 SRO 和 DTV 对制动抖动的影响分析 | 孟德建, 张立军, 余卓平 (43) |
| 任意形式荷载作用下饱和土中桩的扭转振动特性研究 | 靳建明, 张智卿, 王奎华, 等 (50) |
| 大跨度斜拉立体桁架的水平地震反应分析 | 孙建琴, 李从林, 吴敏哲 (55) |
| 爆破振动对民房破坏效应预测的 BDA 模型及应用 | 史秀志, 周 健, 杜 坤, 等 (60) |
| 基于特征值分析的摩擦转子热稳定性研究 | 田永伟, 杨建刚 (66) |
| 基于 FEM - SPH 耦合的弹丸侵入钢纤维混凝土数值模拟 | 纪 冲, 龙 源, 方 向 (69) |
| 油气弹簧常通孔对阀门水击力的影响研究 | 陈轶杰, 杨占华, 雷强顺, 等 (75) |
| 中耳有限元分析中内耳淋巴液作用的等效模型研究 | 朱翊洲, 陈力奋, 张天宇, 等 (79) |
| 门上设置弹簧与阻尼器的防护门抗爆性能的理论及数值分析 | 方 秦, 杜茂林, 陈 力 (83) |
| 参数对自适应 Vold-Kalman 阶比跟踪影响的研究 | 赵晓平, 薛胜军, 侯荣涛 (88) |
| 三次非线性包装系统关键部件三维冲击谱研究 | 王 雷, 王志伟, 王 军 (92) |
| 悬臂梁振动非接触式磁力主动控制研究 | 王 亮, 陈怀海, 贺旭东, 等 (94) |
| 金属橡胶材料双层结构吸声特性研究 | 武国启, 敖宏瑞, 姜洪源 (99) |
| 一种磁流变阻尼器动态阻尼力模型 | 邢海军, 杨绍普, 郭树起, 等 (105) |
| 基于经验模式分解和 Teager 能量谱的齿轮箱故障诊断 | 张德祥, 汪 萍, 吴小培, 等 (109) |
| 薄板损伤检测的高斯曲率模态差方法 | 何钦象, 杨智春, 姜 峰, 等 (112) |
| 太阳能电池阵大范围运动反作用力矩求解方法研究 | 赵 真, 肖余之, 杜三虎, 等 (116) |
| 基于 HHT 的转子系统定点碰摩实验研究 | 张 帅, 杨 勇, 韩清凯, 等 (121) |
| 箱梁中冲击回波主频影响因素研究及应用 | 邹春江, 陈征宙, 董 平, 等 (126) |
| 贮箱中弹性隔层板在流体作用下的振动分析 | 郝亚娟, 白象忠, 杨 阳 (132) |
| 基于移动附加质量的损伤诊断技术 | 邓 昌, 顾培英, 汤 雷 (135) |
| 多自由度刨煤机动力学模型的建立与仿真 | 康晓敏, 李贵轩 (139) |

| | |
|--------------------------------|------------------------|
| 基于 3G 的 C/S 模式宽带振动测试系统研究 | 丁卫红, 赵建洋, 张令弥 (145) |
| 非接触式直线型超声电机的振动分析 | 李向华, 陈超, 赵泽生 (149) |
| 速度脉冲型地震地面运动强度表征参数评估 | 周靖, 陈凯亮, 罗高杰 (153) |
| 复杂耦合系统 SEA 求解方法研究 | 雷焯, 盛美萍 (159) |
| 超高层建筑实测风压相干性的小波分析 | 申建红, 李春祥 (162) |
| 钢筋混凝土框架结构阻尼模型研究 | 梁超锋, 刘铁军 (169) |
| 基于支持向量机的大跨度拱桥损伤识别方法研究 | 刘春城, 刘佼 (174) |
| 轧机非线性传动系统冲击扭振的研究与抑制 | 刘浩然, 张业宽, 李晓梅, 等 (179) |
| 基于时频图像特征提取的状态识别方法研究与应用 | 李宏坤, 周帅, 黄文宗 (184) |
| 含弹性连接和层间流体的双梁结构的耦合振动分析 | 李增, 张志谊 (189) |
| 流体对薄壁圆柱管振动频率的影响 | 李兵, 谢里阳, 郭星辉, 等 (193) |
| 水平轴风力机叶片的弯扭耦合气弹稳定性研究 | 任勇生, 张明辉 (196) |
| 基于滤波 x-LMS 算法的磁悬浮隔振器控制研究 | 梁青, 段小帅, 陈绍青, 等 (201) |

科研简报

| | |
|---------------------------------------|------------------------|
| Duffing-Van der pol 系统的 Hopf 分岔 | 符五久 (204) |
| 斜拉索上瞬时风速与风荷载的数值模拟 | 方治华, 李晨 (210) |
| 多孔脆性火山岩弹丸高速撞击航天器典型防护结构试验和仿真分析 | 朱灿灿, 孙英超, 庞宝君, 等 (213) |
| 双链式悬索桥在单车荷载下的振动特征 | 丁南宏, 钱永久, 林丽霞, 等 (216) |
| 考虑刚度及固支边界条件的实用索力求解方法与试验研究 | 林立, 李胡生, 瞿志豪, 等 (221) |
| 排式矩形薄壁钢管横向冲击全屈曲模态解 | 郭胜鹏, 顾红军 (225) |
| 正弦力校准中降低质量块振动响应不均匀影响的设计方案 | 王宇, 张力, 洪宝林, 等 (228) |

简讯

2008 年度本刊被 Ei 收录 531 篇 (42)

本期广告索引

彩色广告

- 封二 杭州亿恒科技有限公司
- 封三 北京东方振动和噪声技术研究所
- 封四 北京声望声电技术有限公司
- 前插 1 杭州亿恒科技有限公司
- 前插 2 南京安正软件工程有限公司
- 前插 3 德国 m+p 国际公司北京代表处

前插 4 比利时 LMS 北京代表处

单色、彩色广告

- 后插 1 武汉优泰电子技术有限公司
- 后插 2 南京安正软件工程有限公司
- 后插 3 中国测试技术研究院机械测试研究所
- 后插 4 上海君协光电科技发展有限公司

CONTENTS

| | |
|--|---|
| Dynamic modeling for a space high quality microgravity active vibration isolation system | LI Zong-feng, LIU Qiang, REN Wei-jia (1) |
| Simulation analysis for running safety of a light-rail train on a long span cable-stayed bridge based on parallel computation | DU Xin-guang, JIN Xian-long , CHEN Xiang-dong (5) |
| Non-Gaussian features of fluctuating wind pressures on long span roofs | YE Ji-hong, HOU Xin-zhen (9) |
| Effects of source parameters on coherency function of ground motion | DING Hai-ping, SONG Zhen-xia (16) |
| Uncertainty analysis of structural natural frequencies based on Bayesian estimation | YI Wei-Jian, LIU Xiang (19) |
| Control mechanism of a differential magnetic suspension active vibration isolation system | SONG Chun-sheng, HU Ye-fa, ZHOU Zu-de (24) |
| Simulation in time domain for nonstationary road disturbances and its wavelet analysis | WANG Guo-lin, HU Jiao, QIAN Jin-ge, et al (28) |
| Analytical solution in frequency domain to vibration in a branched pipe with fluid-structure interaction | LIU Cong-min, LI Yan-hua, ZHU Wei-hua (33) |
| Active control for landing gear shimmy with bifurcation theories | CHEN Da-wei, GU Hong-bin, LIU Hui (38) |
| Influence of initial SRO and DTV on brake judder based on disc brake model with multi-point contact | MENG De-jian, ZHANG Li-jun, YU Zhuo-ping (43) |
| Dynamic torsional response of a pile embedded in porous-saturated soil under arbitrary transient loading | JIN Jian-ming, ZHANG Zhi-qing, WANG Kui-hua, et al (50) |
| Horizontal seismic response of a long span cable-stayed space truss | SUN Jian-qin, LI Cong-lin , WU Min-zhe (55) |
| BDA model for predicting destructive effect of blast vibration on housing | SHI Xiu-zhi, ZHOU Jian, DU Kun, et al (60) |
| Thermal stability of a rubbing rotor based on eigenvalue analysis | TIAN Yong-wei, YANG Jian-gang (66) |
| Numerical simulation for projectile penetrating steel fiber reinforced concrete with FEM-SPH coupling algorithm | JI Chong, LONG Yuan, FANG Xiang (69) |
| Influence of hydro-pneumatic spring throttle orifice upon water hammer of a valve | CHEN Yi-jie, YANG Zhan-hua, LEI Qiang-shun, et al (75) |
| Equivalent model of cochlear lymph fluid in middle ear finite element analysis | ZHU Yi-zhou, CHEN Li-fen, ZHANG Tian-yu, et al (79) |
| Theoretical and numerical investigation on blast-resistant properties of a blast door with springs and dampers | FANG Qin, DU Mao-ling, CHEN Li (83) |
| Influence of parameters on order tracking of adaptive Vold-Kalman | ZHAO Xiao-ping, XUE Sheng-jun, HOU Rong-tao (88) |
| Three-dimensional shock spectra of a cubic nonlinear packaging system with critical component | WANG Lei, WANG Zhi-wei, WANG Jun (92) |
| Vibration active control for a cantilever beam with a noncontact magnetic force | WANG Liang, CHEN Huai-hai, HE Xu-dong, et al (94) |
| Sound absorption characteristics of a double-layer structure with metal-rubber material | WU Guo-qi, AO Hong-rui, JIANG Hong-yuan (99) |
| A dynamic model of magnetorheological dampers | XING Hai-jun, YANG Shao-pu, GUO Shu-qi, et al (105) |
| Gearbox fault diagnosis based on empirical mode decomposition and Teager energy spectrum | ZHANG De-xiang, WANG Ping, WU Xiao-pei, et al (109) |
| Damage detection for an elastic thin plate based on Gauss curvature modal difference | HE Qin-xiang, YANG Zhi-chun, JIANG Feng, et al (112) |
| Reaction moment of a flexible solar cell array in large overall motions | ZHAO Zhen, XIAO Yu-zhi, DU San-hu, et al (116) |
| Experimental study on a rotor system with rub-impact at fixed limiter based on HHT | ZHANG Shuai, YANG Yong, HAN Qing-kai, et al (121) |
| Influencing factors on impact-echo characteristic frequency in a box beam | ZOU Chun-Jiang, CHEN Zheng-Zhou, DONG Ping, et al (126) |

| | |
|--|--|
| Vibration analysis of an elastic plate in a tank with fluid influence | HAO Ya-juan, BAI Xiang-zhong, YANG Yang (132) |
| Damage diagnosis based on natural frequencies of a structure by adding known masses | DENG Chang, GU Pei-ying, Tang Lei (135) |
| Multi-DOF dynamic model for a coal plough with its simulation | KANG Xiao-min, LI Gui-xuan (139) |
| A broad band C/S mode vibration test system based on 3G network | DING Wei-hong, ZHAO Jian-yang, ZHANG Ling-mi (145) |
| Vibration analysis of non-contact linear ultrasonic motor | LI Xiang-hua, CHEN Chao, ZHAO Chun-sheng (149) |
| Evaluation of intensity measures for pulse-like earthquake ground motions | ZHOU Jing, CHEN Kai-liang, LUO Gao-jie (153) |
| SEA solving method for a complicated coupled system | LEI Ye, SHENG Mei-ping (159) |
| Wavelet analysis for coherence of full-scale measured wind pressure on a super tall building | SHEN Jian-hong, LI Chun-xiang (162) |
| Damping model of a reinforced concrete frame structure | LIANG Chao-feng, LIU Tie-jun (169) |
| Damage identification of a long-span arch bridge based on support vector machine | LIU Chun-cheng, LIU Jiao (174) |
| Investigation and suppression of impact torsional vibration of a rolling mill's nonlinear drive system | LIU Hao-ran, ZHANG Ye-kuan, LI Xiao-mei, et al (179) |
| Time-frequency image feature extraction for machine condition classification and its application | LI Hong-kun, ZHOU Shuai, HUANG Wen-zong (184) |
| Coupled vibration analysis of a double-beam structure with fluid and elastic connection inside | LI Zeng, ZHANG Zhi-yi (189) |
| Effect of flowing fluid on vibration frequencies of a thin-walled cylindrical tube | LI Bing, XIE Li-yang, GUO Xing-hui, et al (193) |
| Aeroelastic stability of a horizontal axis wind turbine blade with bending-torsion coupled | REN Yong-sheng, ZHANG Ming-hui (196) |
| Control of electromagnetic suspension vibration isolator based on filtered x-LMS algorithm | LIANG Qing, DUAN Xiao-shuai, CHEN Shao-qing, et al (201) |

Research Notes

| | |
|--|---|
| Hopf bifurcation of a Duffing-Van der pol system | FU Wu-jiu (204) |
| Numerical simulation for instantaneous wind speed and wind load on a stayed cable | FANG Zhi-hua, LI Chen (210) |
| High-velocity impact test and simulation for brittle lava pills on a spacecraft typical shield | ZHU dang-dang, SUN Ying-chao, PANG Bao-jun, et al (213) |
| Vibration character of a double cable suspension bridge under a single vehicle load | DING Nan-hong, QIAN Yong-jiu, LIN Li-xia, et al (216) |
| Practical solution method and experimental study on cable tension considering cable stiffness and fixed boundary condition | LIN Li, LI Hu-sheng, QU Zhi-hao, et al (221) |
| Modal solution to complete buckling of a multirow rectangular thin-wall steel tube under lateral impact | GUO Sheng-peng, GU Hong-jun (225) |
| Mass design plan in sinusoidal force calibration to avoid nonuniform vibration response | WANG Yu, ZHANG Li, HONG Bao-lin, et al (228) |

JOURNAL OF VIBRATION AND SHOCK

Vol. 29 No. 7 JULY 2010

Editorial Office: 1954 Huashan Rd. Shanghai, China

Issuer Abroad: China National Publishing Industry Trading Corporation

(Post-Office Box No. 728, Beijing, China)
