

计算力学学报

第 40 卷 第 5 期 2023 年 10 月

目 次

| | |
|---|----------------------------|
| “第十三届全国随机振动理论与应用学术会议暨第十一届全国随机动力学学术会议”随机振动专题 | |
| 序言 | 杨迪雄 (665) |
| 基于能量耗散分析的混凝土随机疲劳损伤模型 | 魏成功, 李 杰 (666-671) |
| 结构随机振动时域响应统计特征分析的多项式维数分解法 | 刘 凡, 肖 进, 韩 波, 等 (672-677) |
| 滞回摩擦型调谐惯质阻尼器结构隔震研究 | 台玉吉, 周 帅, 华旭刚 (678-685) |
| 一种结构响应预测策略与新可靠度分析方法 | 周 锦, 李 杰 (686-692) |
| 子集模拟的混合采样算法 | 廖子涵, 李宾宾 (693-700) |
| 随机声子晶体不确定性分析的直接概率积分法 | 李 鹭, 陈国海, 杨迪雄 (701-709) |
| 基于整体易损性的猫头型输电塔抗倒塌能力分析 | 宋鹏彦, 赵仰康, 杨保卫 (710-717) |
| 考虑参数不确定性的非线性梁随机振动分析 | 吴鹏辉, 肖 进, 王纪磊, 等 (718-723) |
| 研究论文 | |
| 二级多点近似方法在整星结构优化设计中的应用 | 刘拴军, 黄 海, 赵旭瑞, 等 (724-731) |
| 考虑微结构连接性的双尺度结构自然频率拓扑优化 | 罗 潇, 刘 湃, 曾雨琪, 等 (732-738) |
| 基于分离式建模的砖石古塔动力性能与响应分析 | 卢俊龙, 周谦祥, 田鹏刚, 等 (739-748) |
| 基于自由振动的高速铁路简支梁桥共振与消振速度研究 | 杨宏印, 吴楠昊, 曹鸿猷, 等 (749-756) |
| 基于新息自适应卡尔曼滤波算法的多类型结构响应重构 | 丁怡渊, 殷 红, 彭珍瑞 (757-763) |
| 半覆水相变 V 形峡谷场地 P 波入射下的空间地震动散射频域 理论解、验证及特征 | 柳国环, 陈欣宇, 李鑫洋 (764-772) |
| 多层圆柱体锚固结构中超声导波频散特征的研究 | 白雨佳, 张昌锁, 牛潘宇, 等 (773-780) |
| 型钢连接装配式混凝土梁等效抗弯刚度研究 | 胡习兵, 周 莹, 范周军, 等 (781-786) |
| 基于物理界面的双重介质有限裂隙渗流模型 | 吴 璇, 沈文豪, 王志华, 等 (787-794) |
| 二维水平通道内流动沸腾换热的格子 Boltzmann 模拟 | 孟凡星, 董 波, 程显耀, 等 (795-800) |
| 不同重力场下颗粒冲击过程的离散元分析 | 于 杰, 罗 泉, 赵婷婷, 等 (801-806) |
| 基于 Python-Abaqus 的自适应网格重划分算法实现及其应用 | 徐亚飞, 肖映雄, 吴宇航 (807-814) |
| 各向异性对平板裂纹扩展路径的影响研究 | 张向奎, 中国哲, 许 博, 等 (815-820) |
| 研究简报 | |
| 基于弯扭组合梁元的多段折叠翼离散突风响应 | 祁武超, 赵传旭, 王 猛, 等 (821-828) |
| 考虑碳纳米管非均匀分布的复合材料电导率计算 | 黄正玮, 宋 颖, 赵晓华, 等 (829-835) |
| 带变截面可更换耗能梁段的高强钢框架-偏心支撑有限元参数分析 | 李 慎, 吴喜梅, 李晓蕾, 等 (836-846) |
| 近场动力学最小二乘和有限元耦合方法研究 | 郑庆胜, 张树翠, 孙可明, 等 (847-853) |
| 陡倾滑面滑坡锯齿形抗滑桩力学性能研究 | 侯小强, 刘杰瑞, 王新飞, 等 (854-860) |
| 会议简讯 | |
| 《计算力学学报》第八届编委会召开第二次工作会议 | 本刊编辑部 (700) |

封面题字: 钱令希 责任编辑: 冯 颖 刘 燕

期刊基本参数: CN21-1373/O3 * 1984 * b * A4 * 196 * zh * P * ¥50.00 * 1000 * 26 * 2023-10

Chinese Journal of Computational Mechanics

Vol. 40 No. 5 October 2023

CONTENTS

Special Topic of Random Vibration

- Preface YANG Di-xiong (665)
- Stochastic fatigue damage model for concrete based on energy dissipation analysis ... GUO Cheng-gong, LI Jie (666-671)
- A polynomial dimensional decomposition method for analyzing statistical characteristics
of structural random vibration responses in the time-domain LIU Fan, XIAO Jin, HAN Bo, et al (672-677)
- Study on isolation of structure with hysteretic friction tuned inerter damper
..... TAI Yu-ji, ZHOU Shuai, HUA Xu-gang (678-685)
- Prediction strategy of response of structures and the new reliability analysis method ZHOU Jin, LI Jie (686-692)
- Subset simulation method with mixed sampler LIAO Zi-han, LI Bin-bin (693-700)
- Direct probability integral method for uncertainty analysis of stochastic phonon crystals
..... LI Ao, CHEN Guo-hai, YANG Di-xiong (701-709)
- Anti-collapse capacity assessment of owl type transmission towers based on global
seismic fragility analysis SONG Peng-yan, ZHAO Yang-kang, YANG Bao-wei (710-717)
- Random vibration analysis of non-linear beams with parameter uncertainties
..... WU Peng-hui, XIAO Jin, WANG Ji-lei, et al (718-723)

Research Papers

- Application of two-level multipoint approximation method in optimal design of whole
satellite structure LIU Shuan-jun, HUANG Hai, ZHAO Xu-rui, et al (724-731)
- Integrated topology optimization of structures and lattice material microstructures to
maximize structural fundamental frequency considering the connectivity between
lattice materials LUO Xiao, LIU Pai, ZENG Yu-qi, et al (732-738)
- Dynamic performance and response analysis of brick-and-stone ancient tower based on
separated modeling LU Jun-long, ZHOU Qian-xiang, TIAN Peng-gang, et al (739-748)
- Research on resonance and cancellation speed of simply supported girder bridge of high-speed
railway based on free vibration YANG Hong-yin, WU Nan-hao, CAO Hong-you, et al (749-756)
- Multi-type structural response reconstruction based on innovation adaptive Kalman filtering
algorithm DING Yi-yuan, YIN Hong, PENG Zhen-rui (757-763)
- Theoretical solutions of variable seismic motions for scattering of incident P-waves by
a medium-transition V-shaped canyon with partly filled water and its verification
and characteristics LIU Guo-huan, CHEN Xin-yu, LI Xin-yang (764-772)
- Research on dispersion characteristics of ultrasonic guided waves in multilayer cylinder
anchored structures BAI Yu-jia, ZHANG Chang-suo, NIU Pan-yu, et al (773-780)
- Research on equivalent bending stiffness of fabricated concrete beams connected
with section steel HU Xi-bing, ZHOU Ying, FAN Zhou-jun, et al (781-786)
- A finite crack seepage model for dual media based on the physical interface
..... WU Xuan, SHEN Wen-hao, WANG Zhi-hua, et al (787-794)
- Lattice Boltzmann simulation of flow boiling heat transfer in two-dimensional
horizontal channels MENG Fan-xing, DONG Bo, CHENG Xian-yao, et al (795-800)
- Numerical analysis of particle impact under different gravity conditions by discrete
element method YU Jie, LUO Xiao, ZHAO Ting-ting, et al (801-806)
- Implementation and its application of adaptive remeshing algorithm based on
Python-Abaqus XU Ya-fei, XIAO Ying-xiong, WU Yu-hang (807-814)
- Effect of anisotropy on the crack propagation path of plate ... ZHANG Xiang-kui, SHEN Guo-zhe, XU Bo, et al (815-820)

Research Notes

- Discrete gust responses of a multi-segment folding wing based on a bending-torsional
beam element QI Wu-chao, ZHAO Chuan-xu, WANG Meng, et al (821-828)
- Electrical conductivity of composites with heterogeneously distributed carbon
nanotubes HUANG Zheng-wei, SONG Ying, ZHAO Xiao-hua, et al (829-835)
- Finite parametric analysis of high-strength steel eccentrically braced frame with
corrugated replaceable link LI Shen, WU Xi-mei, LI Xiao-lei, et al (836-846)
- Study on the coupling method of peridynamic least square minimization and
finite element method ZHENG Qing-sheng, ZHANG Shu-cui, SUN Ke-ming, et al (847-853)
- Study on the mechanical performance of zigzag anti-slide pile on steep inclined
slip surface landslide HOU Xiao-qiang, LIU Jie-rui, WANG Xin-fei, et al (854-860)