

计算力学学报

第 38 卷 第 5 期 2021 年 10 月

目 次

研究论文

- 水下航行体螺栓法兰连接结构可靠性分析 聂肇坤, 曾 岩, 李 刚 (565-572)
- 基于整体-局部技术的结构形状优化策略 吴志学 (573-579)
- 基于神经网络算法的建筑结构振动分散控制研究 汪 权, 王 文, 韩新节, 等 (580-585)
- 多孔功能梯度材料 Timoshenko 梁的自由振动分析 王伟斌, 杨文秀, 滕兆春 (586-594)
- 多层正交异性矩形薄板弯曲振动稳定解析解 曹彩芹, 宋永超 (595-603)
- 基于冗余度与易损性的结构抗震能力提升方法研究 朱南海, 李杰明 (604-611)
- 耦合路面损伤的车辆随机动荷载特性研究 唐兰军, 李 倩 (612-618)
- 基于 Nitsche 方法与拟牛顿求解的二维接触问题等几何分析 胡清元, 沈莞菁, 蒋芳芳 (619-624)
- 基于静力残余力向量的结构损伤评估方法 杨秋伟, 周 聪, 李翠红, 等 (625-630)
- 利用结构基因法研究非线性周期性板结构的等效力学性能 贾贻然, 韩灵芝, 雷金成, 等 (631-637)
- 代理模型在机翼油箱晃动适航审定中的应用 孙 滨, 韩 松, 王东林, 等 (638-643)
- 陡峭山坡风场数值模拟方法研究 郑德乾, 李 亮, 方平治, 等 (644-650)
- 悬索桥空间缆索实用找形方法 马召宇, 许福友, 檀永刚 (651-657)
- 剪切和扭转工况下微纳米薄壁蜂窝的等效剪切模量计算 贺 丹, 刘海洋 (658-664)
- PFC^{2D} 平节理模型细观参数标定方法 张宝玉, 张昌锁, 王晨龙, 等 (665-673)

研究简报

- 谱体积方法单元分割与问题单元标记方法的改进研究 柯耀祖, 张 兵 (674-680)
- 基于数值流形方法的特殊孔缘单元构造及开孔板求解 武卓威, 刘 俊 (681-687)
- 相位谱线性重构法去除 Lamb 波频散研究 徐彩军 (688-694)

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 * 130 * zh * P * ¥50.00 * 1000 * 18 * 2021-10

Chinese Journal of Computational Mechanics

Vol. 38 No. 5 October 2021

CONTENTS

Research Papers

- Reliability analysis on bolted flange connection of underwater vehicle
..... NIE Zhao-kun, ZENG Yan, LI Gang (565-572)
- A strategy for structural shape optimization based on global-local technique ... WU Zhi-xue (573-579)
- Decentralized control of building structure based on neural network algorithm
..... WANG Quan, WANG Wen, HAN Xin-jie, et al (580-585)
- Free vibration analysis of porous functionally graded materials Timoshenko beam
..... WANG Wei-bin, YANG Wen-xiu, TENG Zhao-chun (586-594)
- Analytical solutions for bending, vibration and stability of multilayer orthotropic
rectangular thin plates CAO Cai-qin, SONG Yong-chao (595-603)
- A method for the enhancement structural seismic capability based on redundancy
and vulnerability ZHU Nan-hai, LI Jie-ming (604-611)
- Study on the characteristics of vehicle random dynamic load coupled with pavement
damage TANG Lan-jun, LI Qian (612-618)
- Isogeometric analysis of 2D contact problems based on the Nitsche's method and
quasi-Newton solver HU Qing-yuan, SHEN Wan-qiang, JIANG Fang-fang (619-624)
- Structural damage assessment based on static residual force vector
..... YANG Qiu-wei, ZHOU Cong, LI Cui-hong, et al (625-630)
- Study on the equivalent properties of nonlinear periodic heterogeneous
composite plates using the structural genome approach
..... JIA Yi-ran, HAN Ling-zhi, LEI Jin-cheng, et al (631-637)
- Application of surrogate model in qualification test for sloshed fuel tank
..... SUN Bin, HAN Song, WANG Dong-lin, et al (638-643)
- Study on numerical simulation method for wind field over steep slope terrain
..... ZHENG De-qian, LI Liang, FANG Ping-zhi, et al (644-650)
- A practical method for shape finding of spatial cable curves of suspension
bridges MA Zhao-yu, XU Fu-you, TAN Yong-gang (651-657)
- Equivalent shear modulus of micro-nano thin-walled honeycomb under
shear and torsion HE Dan, LIU Hai-yang (658-664)
- Calibration method of meso-parameters of PFC^{2D} flat-joint model
..... ZHANG Bao-yu, ZHANG Chang-suo, WANG Chen-long, et al (665-673)

Research Notes

- A study on the cell partition and trouble cell marking method of spectral volume
method KE Yao-zu, ZHANG Bing (674-680)
- A special hole edge element fitted to numerical manifold method for analyzing
plates with holes WU Zhuo-wei, LIU Jun (681-687)
- The research of Lamb wave dispersion removal by linear reconstruction of phase
spectrum XU Cai-jun (688-694)