

计算力学学报

第 40 卷 第 6 期 2023 年 12 月

目 次

研究论文

- 面向增材制造的双蒙皮夹层结构加筋拓扑优化方法 霍泽凯,王 博,周 演,等 (861-871)
- 基于粒子群-AK-MCS 法的结构可靠性分析 姜封国,于 正,白丽丽,等 (872-878)
- 随机风-浪一体化降维建模及风机结构可靠度研究 吕康玄,张文远,贺炳楠,等 (879-884)
- 适用于几何非线性气动弹性分析的结构动力学降阶模型方法研究 张 兵,汪启航 (885-892)
- 基于微分求积有限元法的双层微板系统振动特性研究 张立民,张 波,张 旭,等 (893-901)
- 地震和风耦合作用下连体高层建筑联合易损性分析方法研究 杨连森,陈 鑫,谈丽华,等 (902-911)
- 高效耗能摩擦阻尼钢筋混凝土框架结构减震性能分析 张 敏,范蓓蓓 (912-919)
- 基于损伤分布模型的震损 RC 框架力学性能分析与实证研究 胡卫兵,汪 胜 (920-927)
- 混联 I 型惯容系统基于李鸿晶谱的地震响应分析 李创第,王瑞勃,江丽富,等 (928-935)
- 随机不确定性下 Kriging 辅助的谐波减速器柔轮疲劳寿命预测 冯世哲,马继超,张德权,等 (936-943)
- 分子动力学模拟含不同初始缺陷单晶镍的断裂行为与应力演化 李云丽,杨振睿,张学林,等 (944-954)
- 基于断裂力学的高寒地区边坡危岩体稳定性分析 李祥庆,吴顺川,刘兴雷,等 (955-962)
- 基于 SPH 法的返回舱入水载荷模拟分析 丁 宁,王鑫博 (963-971)
- 脉冲流在 Y 型和倒 Y 型微反应器中强化传质的格子 Boltzmann 模拟
..... 麻晓庆,董志强,王洪涛,等 (972-978)
- 不同界面计算方法对液滴在电场作用下变形数值模拟精度的影响 刘 强,吴 健 (979-984)
- 基于能量变分法的钢底板波形钢腹板组合箱梁畸变效应分析 陈东亮,张元海 (985-991)
- 弹性薄板的广义多维微分求积分析方法 李鸿晶,徐 强,孙广俊,等 (992-999)
- 基于谱元法考虑层间接触状态的 Rayleigh 波频散特征正演计算 杨 博,汤跃文,夏江海,等 (1000-1007)

研究简报

- 考虑刚度折减的多棱锥型套接钢管杆挠度及附加弯矩研究 潘 峰,陈 远,蔡 勇,等 (1008-1015)
- 钢桁腹-混凝土组合箱梁畸变效应研究 李永鹏,丁南宏,冀 伟 (1016-1022)
- 改进的泡泡布点方法研究 张伟伟,马泽鹏 (1023-1028)
- 不同索网加劲的气承式膜结构受力特性研究 申跃奎,李 洋,朱新雨,等 (1029-1035)
- 基于 WENO 重构的真正多维黎曼求解器 胡立军,谭诗德,袁海专 (1036-1043)

工程应用

- 一种颗粒复合材料物理性能计算模型与工程应用 于文博,王发展 (1044-1050)

简讯

- 祝贺!《计算力学学报》副主编郭旭教授当选中国科学院院士 本刊编辑部 (1015)

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 * 190 * zh * P * ¥50.00 * 1000 * 24 * 2023-12

Chinese Journal of Computational Mechanics

Vol. 40 No. 6 December 2023

CONTENTS

Research Papers

- Topology optimization of double-skin stiffened sandwich structure for additive manufacturing HUO Ze-kai, WANG Bo, ZHOU Yan, et al (861-871)
- Structural reliability analysis based on particle swarm optimization
AK-MCS method JIANG Feng-guo, YU Zheng, BAI Li-li, et al (872-878)
- Research on integrated dimension-reduction modeling of stochastic wind-wave and reliability
of offshore wind turbines LÜ Kang-xuan, ZHANG Wen-yuan, HE Bing-nan, et al (879-884)
- Study on structural dynamics reduced-order model for geometrically nonlinear
aeroelastic analysis ZHANG Bing, WANG Qi-hang (885-892)
- Application of differential quadrature finite element method to the free vibration analysis
of double-layered microplate system ZHANG Li-min, ZHANG Bo, ZHANG Xu, et al (893-901)
- Study on joint fragility analysis method of conjoined high-rise buildings under combined
actions of earthquake and wind YANG Lian-sen, CHEN Xin, TAN Li-hua, et al (902-911)
- Analysis of the seismic performance of reinforced concrete frame structures with
high-efficiency energy-consuming friction dampers ZHANG Min, FAN Bei-bei (912-919)
- Analysis and empirical study of mechanical properties of RC frames with seismic damage
based on damage distribution model HU Wei-bing, WANG Sheng (920-927)
- Seismic response analysis of series-parallel-I inerter system subjected to
Li Hongjing spectrum excitation LI Chuang-di, WANG Rui-bo, JIANG Li-fu, et al (928-935)
- Kriging-assisted fatigue life prediction of harmonic reducer flexible wheel
under random uncertainty FENG Shi-zhe, MA Ji-chao, ZHANG De-quan, et al (936-943)
- Molecular dynamics simulation of fracture behavior and stress evolution of single crystal
nickel with different initial defects LI Yun-li, YANG Zhen-rui, ZHANG Xue-lin, et al (944-954)
- Stability analysis of slope dangerous rock mass in alpine region based on
fracture mechanics LI Xiang-qing, WU Shun-chuan, LIU Xing-lei, et al (955-962)
- Simulation analysis on water entry loads of a space capsule based on SPH
method DING Ning, WANG Xin-bo (963-971)
- Lattice Boltzmann simulation of mass transfer enhancement by pulsed flow
in Y-type and inverted-Y-type micro-reactors
..... MA Xiao-qing, DONG Zhi-qiang, WANG Hong-tao, et al (972-978)
- The effect of different interface capture methods on the simulation accuracy
of droplet deformation under electric field LIU Qiang, WU Jian (979-984)
- Analysis on distortion effect of composite box girder with corrugated steel webs and steel
soleplates based on energy variational method CHEN Dong-liang, ZHANG Yuan-hai (985-991)
- Differential cubature solution of Kirchhoff plates with generalized staggered
mesh pattern LI Hong-jing, XU Qiang, SUN Guang-jun, et al (992-999)
- Forward calculation of Rayleigh waves dispersion characteristics considering
interlayer contact state based on spectral element method
..... YANG Bo, TANG Yue-wen, XIA Jiang-hai, et al (1000-1007)

Research Notes

- Study on deflection and additional bending moment of slip-joint connection
for multi-pyramidal steel pole considering stiffness reduction
..... PAN Feng, CHEN Yuan, CAI Yong, et al (1008-1015)
- Distortion effect of concrete composite box girder with steel truss webs
..... LI Yong-peng, DING Nan-hong, JI Wei (1016-1022)
- Research on improved node placement method by bubble simulation
..... ZHANG Wei-wei, MA Ze-peng (1023-1028)
- Study on the force characteristics of air-supported membrane structure with different
cable network reinforcement SHEN Yue-kui, LI Yang, ZHU Xin-yu, et al (1029-1035)
- A genuinely multidimensional Riemann solver based on WENO reconstruction
..... HU Li-jun, TAN Shi-de, YUAN Hai-zhuan (1036-1043)

Engineering Application

- A calculation model and its engineering application of physical properties
of granular composites YU Wen-bo, WANG Fa-zhan (1044-1050)