

计算力学学报

第34卷 第5期 2017年10月

目 次

研究论文

- 缝水压力和裂缝面接触条件对重力坝裂缝扩展影响 庞林,林皋 (535-540)
混凝土保护层锈胀开裂过程分析的细观刚体弹簧元模型 梁永钦,王立成 (541-546)
剪切型钢筋混凝土柱临界斜裂缝倾角的概率模型 余波,吴然立,陈冰 (547-554)
非结构网格质量对梯度重构及无粘流动模拟精度的影响 王年华,张来平,马戎,等 (555-563)
SPH方法研究空气在平板入水中的影响 闫蕊,徐绯,任选其 (564-569)
基于浸入边界算法的振动钝体绕流模拟研究 杨青,曹曙阳,齐永胜 (570-578)
流体饱和多孔介质动力问题的显式时域解法 宋佳,许成顺,杜修力,等 (579-585)
摆动方式对水翼输入功率的影响 李伟忠,王文全,闫妍 (586-590)
基于网格生成的随机凹凸型混凝土骨料细观建模方法 汪奔,王弘,张志强,等 (591-596)
基于微分求积法的边界值方法 汪芳宗,王永,杨萌 (597-602)
加权最小二乘法求解 Rayleigh 阻尼系数的讨论 王淮峰,楼梦麟,张如林 (603-607)
含界面裂纹 Reissner 板弯曲问题分析的奇异单元 张兆军,王珊,姚伟岸 (608-614)
铁路道砟破碎特性的离散元分析 严颖,赵春发,李勇俊,等 (615-622)
双稳态电磁式振动能量捕获器超谐波响应研究 吴子英,叶文腾,刘强 (623-630)
基于二阶系统解耦的精细积分格式下动载荷时域识别 王淑娟,韩伟民,王国巧,等 (631-637)
索-梁组合结构主共振响应的时滞反馈控制 彭剑,李禄欣,向明姣,等 (638-643)
温度变化对端部激励斜拉索共振响应影响 赵珧冰,孙测世 (644-649)
一种具有新型动力放大器压电悬臂梁俘能器计算模型和解析解 唐礼平,王建国 (650-656)

研究简报

- 力场-化学场耦合作用对含裂纹固体电解质力学行为的研究 孙毅,曹梦欣,杨志强 (657-664)
考虑流固耦合作用的充气膜结构风压分布研究 申跃奎,赵德顺,王秦 (665-671)
两点边值问题3次Lagrange形函数有限元方程的条件数和预处理 张衡 (672-676)

Chinese Journal of Computational Mechanics

Vol.34 No.5 October 2017

CONTENTS

Research Papers

- Effects of in-crack water pressure and contact condition of crack surface on crack propagation in gravity dams PANG Lin, LIN Gao (535-540)
- Mesoscale Rigid-Body-Spring Model for analyzing the crack propagation of concrete cover due to steel bar corrosion LIANG Yong-qin, WANG Li-cheng (541-546)
- Probabilistic model for critical diagonal crack angle of shear-critical reinforced concrete columns YU Bo, WU Ran-li, CHEN Bing (547-554)
- Mesh quality effects on the accuracy of gradient reconstruction and inviscid flow simulation on isotropic unstructured grids WANG Nian-hua, ZHANG Lai-ping, MA Rong, et al (555-563)
- Research on the effects of air during flat plate impacting with water using SPH method YAN Rui, XU Fei, REN Xuan-qi (564-569)
- Numerical simulation of flow around oscillating bluff body based on immersed boundary method YANG Qing, CAO Shu-yang, QI Yong-sheng (570-578)
- An explicit integrator method for the dynamic problem of fluid-saturated porous medium in time domain SONG Jia, XU Cheng-shun, DU Xiu-li, et al (579-585)
- Effects of different flapping ways on input power of a hydrofoil LI Wei-zhong, WANG Wen-quan, YAN Yan (586-590)
- Mesoscopic modeling method of concrete aggregates with arbitrary shapes based on mesh generation WANG Ben, WANG Hong, ZHANG Zhi-qiang, et al (591-596)
- The formulation of the boundary value methods via differential quadrature WANG Fang-zong, WANG Yong, YANG Meng (597-602)
- Discussion on weighted least-squares method for solving Rayleigh damping coefficients WANG Huai-feng, LOU Meng-lin, ZHANG Ru-lin (603-607)
- A singular element for Reissner plate bending problem with interface cracks ZHANG Zhao-jun, WANG Shan, YAO Wei-an (608-614)
- Discrete element analysis of breakage characteristics of railway ballast YAN Ying, ZHAO Chun-fa, LI Yong-jun, et al (615-622)
- Research on the superharmonic effects of bistable electromagnetic vibration energy harvester WU Zi-ying, YE Wen-teng, LIU Qiang (623-630)
- Dynamic load identification in second-order formulation in time domain based precise time-integration WANG Shu-juan, HAN Wei-min, WANG Guo-qiao, et al (631-637)
- Primary resonance of cable-stayed beam with time-delayed feedback control PENG Jian, LI Lu-xin, XIANG Ming-jiao, et al (638-643)
- Temperature effects on the resonance responses of stay cables under support excitation ZHAO Yao-bing, SUN Ce-shi (644-649)
- Modeling and analytical solution of piezoelectric cantilevered energy harvester with a new dynamic magnifier TANG Li-ping, WANG Jian-guo (650-656)

Research Notes

- Mechanical behavior of cracked solid electrolyte under the coupled mechanical and chemical fields SUN Yi, CAO Meng-xin, YANG Zhi-qiang (657-664)
- On wind pressure coefficient distribution of air-supported structures considering fluid-structure coupling SHEN Yue-kui, ZHAO De-shun, WANG Qin (665-671)
- Condition number and preprocessing of the finite element equation of two point boundary value problems with cubic Lagrange shape function ZHANG Heng (672-676)