

物理学类核心期刊
EI Compendex 收录的科技期刊

ISSN 1001-246X
CN11-2011/O4
CODEN JIWUEP

计算物理

CHINESE JOURNAL OF
COMPUTATIONAL PHYSICS

第 29 卷 第 6 期
Vol. 29 No. 6

6

2012

ISSN 1001-246X



9 771001246001

中国核学会
计算物理编辑委员会

万方数据

目 次

基于特征理论的二维可压缩流动的二阶拉氏算法	孙宇涛	贾祖朋	于 明	任玉新(791)			
格子 Boltzmann 方法中三种流固耦合格式的对比	黄荣宗	王 亮	郭照立(799)				
一种减少壁热误差的自适应热粘性	沈智军	谢亚伟	闫 伟(807)				
直流传 PEMFC 两相流数学模型	刘训良	楼国锋	温 治(815)				
低渗透多孔介质非达西渗流动边界界面追踪	刘文超	姚 军	王建忠(823)				
作用力求取方法对多相伪势模型的影响	胡安杰	李隆键	曾建邦(828)				
非高斯单因子短期利率模型正则化参数估计	江 良	徐承龙	(837)				
三维磁共振电阻抗成像的改进分层灵敏度算法	李 刚	陈瑞娟	郝丽玲	周 梅	林 凌(845)		
周期对称结构 R-FDTD 方法及其减元优化	刘丽娜	朱 峰	徐常伟	牛大鹏(853)			
碰撞对两种正离子的电负性磁鞘影响的数值研究	赵晓云	张丙开	武 山	李世刚(859)			
均匀电场 SF ₆ 短气隙放电过程动态模拟	郑殿春	夏云双	朱士华	王文龙	赵大伟(867)		
基于区域分解和逐级光线分裂的杂散光分析	陈 学	孙 创	夏新林(876)				
Doppler 展宽准 Λ 型四能级系统中传播效应的位相相关性(英)	刘中波	樊锡君(890)					
基于概率迭代的 NDP 反演方法	杨 鑫	李润东	刘汉刚	王 冠博	王 侃(891)		
二维颗粒破碎过程的计算机模拟	王振辉	杨先清	陈 琼(901)				
Mg(NH ₂) ₂ 与 LiH 放氢反应机理的密度泛函理论研究	陈玉红	董 肖	吕晓霞	张梅玲	张材荣	康 龙	罗永春(906)
W _n Ni _m ($n + m = 8$) 团簇轨道能级与芳香性的理论研究	张秀荣	李 扬	尹 琳(913)				
PtIr _n ^{0, ±} ($n = 1 \sim 5$) 团簇电子结构与振动光谱性质的理论研究	郭文录	饶 倩	张秀荣(921)				
应力各向异性下耦合三层薄膜铁磁共振(英)	荣建红	王 焕	云国宏(937)				
三维单芯片多处理器温度特性	王凤娟	杨银堂	朱樟明	王 宁	张 岩(938)		
电网在三种边攻击方式下的级联失效	蓝庆玉	邹艳丽	冯 聪(943)				

CHINESE JOURNAL OF COMPUTATIONAL PHYSICS

Vol. 29, No. 6, 2012

CONTENTS

Research Reports

A second order Lagrangian scheme based on characteristics theory for two-dimensional compressible flows	SUN Yutao, JIA Zupeng, YU Ming, REN Yuxin (798)
Three boundary treatment schemes for particulate flows in lattice Boltzmann method	HUANG Rongzong, WANG Liang, GUO Zhaoli (806)
Wall heating and adaptive heat conduction viscosity	SHEN Zhijun, XIE Yawei, YAN Wei (814)
Mathematical model for two-phase flows in a proton exchange membrane fuel cell with straight flow channels	LIU Xunliang, LOU Guofeng, WEN Zhi (822)
Front tracking for moving boundary of non-Darcy seepage flows in low-permeability porous media	LIU Wenchao, YAO Jun, WANG Jianzhong (827)
Schemes for interparticle interaction forces in multiphase Shan-Chen model	HU Anjie, LI Longjian, ZENG Jianbang (836)
Calibration parameters in non-Gaussian one-factor short-term rate model with regularization method	JIANG Liang, XU Chenglong (844)
Improved algorithm based on sliced sensitivity for three-dimensional MREIT	LI Gang, CHEN Ruijuan, HAO Liling, ZHOU Mei, LIN Ling (852)
Periodic symmetric R-FDTD method and reducing optimization	LIU Lina, ZHU Feng, XU Changwei, NIU Dapeng (858)
Numerical study on collision effect in magnetized electronegative plasma sheath with two species of positive ions	ZHAO Xiaoyun, ZHANG Bingkai, WU Shan, LI Shigang (866)
Dynamics simulation of SF ₆ discharge in a short gap under uniform electric field	ZHENG Dianchun, XIA Yunshuang, ZHU Shihua, WANG Wenlong, ZHAO Dawei (875)
Stray light analysis based on domain decomposition and staged ray splitting	CHEN Xue, SUN Chuang, XIA Xinlin (880)
Phase correlation in propagation effect of a Doppler broadening quasi- Λ type four-level system	LIU Zhongbo, FAN Xijun (881)
An unfolding method of NDP based on probability iteration	YANG Xin, LI Rundong, LIU Hangang, WANG Guanbo, WANG Kan (900)
Simulation on crushing of two-dimensional grains	WANG Zhenhui, YANG Xianqing, CHEN Qiong (905)
Theoretical study on reaction between Mg(NH ₂) ₂ and LiH	CHEN Yuhong, DONG Xiao, LV Xiaoxia, ZHANG Meiling, ZHANG Cairong, KANG Long, LUO Yongchun (912)
Theoretical study of molecular orbital energy levels and aromaticity of W _n Ni _m ($n + m = 8$) clusters	ZHANG Xiurong, LI Yang, YI Lin (920)
Theoretical study on electronic structure and vibration spectrum of PtIr _n ^{0,±} ($n = 1 - 5$) clusters	GUO Wenlu, RAO Qian, ZHANG Xiurong (930)
Resonance modes of coupled trilayers with stress anisotropy	RONG Jianhong, WANG Huan, YUN Guohong (931)
Temperature characteristics of three-dimensional chip-multiprocessors	WANG Fengjuan, YANG Yintang, ZHU Zhangming, WANG Ning, ZHANG Yan (942)
Cascading failures of power grids under three attack strategies	LAN Qingyu, ZOU Yanli, FENG Cong (948)