

目次

· 材料动态响应的多尺度数值模拟 ·

含时密度泛函理论及应用的最新发展	章 睿	030101
复杂材料高压性质的计算与模拟: 基于第一性原理方法的部分进展		
..... 耿华运, 孙 毅, 向士凯		030102
分子动力学方法在金属材料动态响应研究中的应用	邓小良, 李 博, 汤观晴, 祝文军	030103
高聚物黏结炸药的分子模拟进展	龙 瑶, 陈 军	030104
相干衍射成像的相位复原及重建	康 旭, 刘 进	030105
脆性材料动态断裂的介观格子模型	喻 寅, 李媛媛, 贺红亮, 王文强	030106
基于位错动力学方法的动态塑性变形研究		
..... 姚松林, 裴晓阳, 于继东, 俞宇颖, 柏劲松, 李 平, 吴 强		030107
晶体塑性有限元在材料动态响应研究中的应用进展	郑松林	030108
相场断裂方法发展概况	张 豪, 于继东, 裴晓阳, 彭 辉, 李 平, 蔡灵仓, 汤铁钢	030109
微喷射现象数值模拟研究进展概述	邵建立, 何安民, 王 裴	030110
多孔材料温压状态方程计算简要评述	陈俊祥, 耿华运	030111
铝弹丸超高速撞击防护结构的研究进展		
..... 林健宇, 罗斌强, 徐名扬, 宋卫东, 柏劲松, 裴晓阳, 于继东, 李 平		030112

CHINESE JOURNAL OF HIGH PRESSURE PHYSICS

Vol. 33, No. 3, 2019 (Sum No. 149)

CONTENTS

• Multi-Scale Simulation of Dynamic Response of Materials •

New Developments of Time-Dependent Density Functional Theory and Its Applications	QIN Rui	030101
Computation and Simulation of High-Pressure Properties of Complex Materials: A Brief Review on the Methods Based on First-Principles	GENG Huayun, SUN Yi, XIANG Shikai	030102
Application of Molecular Dynamics Simulation to Dynamic Response of Metals		
.....DENG Xiaoliang, LI Bo, TANG Guanqing, ZHU Wenjun		030103
Progress of Atomistic Simulations for Plastic Bonded Explosives	LONG Yao, CHEN Jun	030104
Phase Retrieval and Reconstruction of Coherent Diffraction Imaging	KANG Xu, LIU Jin	030105
Mesoscale Lattice Model for Dynamic Fracture of Brittle Materials		
.....YU Yin, LI Yuanyuan, HE Hongliang, WANG Wenqiang		030106
Overview of the Study of Dynamical Plastic Deformation Based on Dislocation Dynamics Method		
.....YAO Songlin, PEI Xiaoyang, YU Jidong, YU Yuying, BAI Jingsong, LI Ping, WU Qiang		030107
Advances in the Study of Dynamic Response of Crystalline Materials by Crystal Plasticity Finite Element Modeling		
.....ZHENG Songlin		030108
An Overview of Phase Field Approach to Fracture		
.....ZHANG Hao, YU Jidong, PEI Xiaoyang, PENG Hui, LI Ping, CAI Lingcang, TANG Tiegang		030109
Brief Review of Research Progress on Numerical Simulation of Ejection Phenomena		
.....SHAO Jianli, HE Anmin, WANG Pei		030110
Review on Evaluation of Temperature-Pressure Equation of State of Porous Materials.....		
.....CHEN Junxiang, GENG Huayun		030111
Progress of Aluminum Projectile Impacting on Plate with Hypervelocity		
.. LIN Jianyu, LUO Binqiang, XU Mingyang, SONG Weidong, BAI Jingsong, PEI Xiaoyang, YU Jidong, LI Ping		030112