

目次

· 特别约稿与研究综述 ·

位错动力学在极端环境力学中的发展及应用·····崔一南, 柳占立, 胡剑桥, 刘凤仙, 庄 茁 030101

高温、高压、高应变速率动态过程晶体塑性有限元理论模型及其应用·····

·····刘静楠, 叶常青, 刘桂森, 沈 耀 030102

· 高压技术 ·

内爆驱动式超高速发射技术的初步研究·····王马法, HIGGINS Andrew J, 焦德志, 黄 洁, 柳 森 033301

太帕压力下声速连续测量的高精度靶制备·····

·····张红平, 张 黎, 罗斌强, 李建明, 王 峰, 谭福利, 李 牧 033401

金属隔层和空气间隙对钝感炸药冲击起爆的影响·····

·····彭文杨, 钟 斌, 谷 岩, 张 旭, 杨舒棋, 舒俊翔, 覃 双 033402

利用电磁法研究 HMX 与 TATB 混合钝感炸药的冲击起爆特性 ·····

·····杨舒棋, 张 旭, 彭文杨, 舒俊翔, 覃 双, 钟 斌 033403

· 高压下物质的动态响应 ·

孔隙率对钨硅粉末混合物冲击反应的影响·····凌绪玉, 刘福生, 汪贻高 034101

冲击作用下框架结构的连续性倒塌性能·····宿华祥, 易伟建, 黄义谋 034201

碳纤维 - 泡沫铝夹芯板低速冲击响应 ·····刘姗姗, 刘亚军, 张英杰, 李志强 034202

超声动载荷下三维随机骨料混凝土的损伤·····陈启东, 王力晓, 刘 鑫, 沈益晨 034203

爆炸载荷作用下焊缝区附近埋地 X70 钢管的动力响应分析·····李正鹏, 曲艳东 034204

钢纤维混凝土板在冲击与爆炸荷载下的 K&C 模型·····尹华伟, 蒋 轲, 张 料, 黄 亮, 王陈凌 034205

· 高压科学应用 ·

枪弹间隙对水下枪内弹道的影响 ·····孟祥宇, 侯 健, 秦一平, 廖 斐, 鲁春佳 035101

金属蜂窝夹芯结构抗水下冲击性能 ·····李汶蔚, 黄 威 035102

CHINESE JOURNAL OF HIGH PRESSURE PHYSICS

Vol. 34, No. 3, 2020 (Sum No. 155)

CONTENTS

• Invited Article & General Review •

- Advances and Application of Dislocation Dynamics in the Mechanics of Extreme Environment CUI Yanan, LIU Zhanli, HU Jianqiao, LIU Fengxian, ZHUANG Zhuo 030101
- Crystal Plasticity Finite Element Theoretical Models and Applications for High Temperature, High Pressure and High Strain-Rate Dynamic Process..... LIU Jingnan, YE Changqing, LIU Guisen, SHEN Yao 030102

• High Pressure Technology •

- Preliminary Simulation and Experimental Study on Implosion-Driven Hypervelocity Launching Technology WANG Mafa, HIGGINS Andrew J, JIAO Dezhi, HUANG Jie, LIU Sen 033301
- High Precision Targets Fabrication for Sound Velocity Measurements in Terapascal Pressure..... ZHANG Hongping, ZHANG Li, LUO Binqiang, LI Jianming, WANG Feng, TAN Fuli, LI Mu 033401
- Effects of Metal Interlayer and Air Gap on the Shock Initiation of Insensitive Explosives PENG Wenyang, ZHONG Bin, GU Yan, ZHANG Xu, YANG Shuqi, SHU Junxiang, QIN Shuang 033402
- Impact Initiation Characteristics of TATB Based Insensitive Explosives Mixed with HMX by Electromagnetic Velocity Gauges..... YANG Shuqi, ZHANG Xu, PENG Wenyang, SHU Junxiang, QIN Shuang, ZHONG Bin 033403

• Dynamic Response of Materials •

- Influence of Initial Porosity on Shock Chemical Reaction of Niobium-Silicon Powder Mixture..... LING Xuyu, LIU Fusheng, WANG Yigao 034101
- Continuous Collapse Behavior of Frame Structures under Impact SU Huaxiang, YI Weijian, HUANG Yimou 034201
- Low-Velocity Impact Response of Carbon Fiber-Aluminum Foam Sandwich Plate..... LIU Shanshan, LIU Yajun, ZHANG Yingjie, LI Zhiqiang 034202
- Damage of 3D Random Aggregate Concrete under Ultrasonic Dynamic Load..... CHEN Qidong, WANG Lixiao, LIU Xin, SHEN Yichen 034203
- Dynamic Response Analysis of Buried X70 Steel Pipe near Weld Zone under Blast Loads LI Zhengpeng, QU Yandong 034204
- K&C Model of Steel Fiber Reinforced Concrete Plate under Impact and Blast Load YIN Huawei, JIANG Ke, ZHANG Liao, HUANG Liang, WANG Chenling 034205

• High Pressure Applications •

- Influence of Interior Ballistics for Underwater Guns with Gun-Bullet Coupling Gap MENG Xiangyu, HOU Jian, QIN Yiping, LIAO Fei, LU Chunjia 035101
- Impulsive Resistance of Metallic Honeycomb Sandwich Structures Subjected to Underwater Impulsive Loading LI Wenwei, HUANG Wei 035102

Serialparameters: CN 51-1147/O4 * 1987 * b * A4 * 164 * zh * P * ¥ 45.00 * 450 * 14 * 2020-06