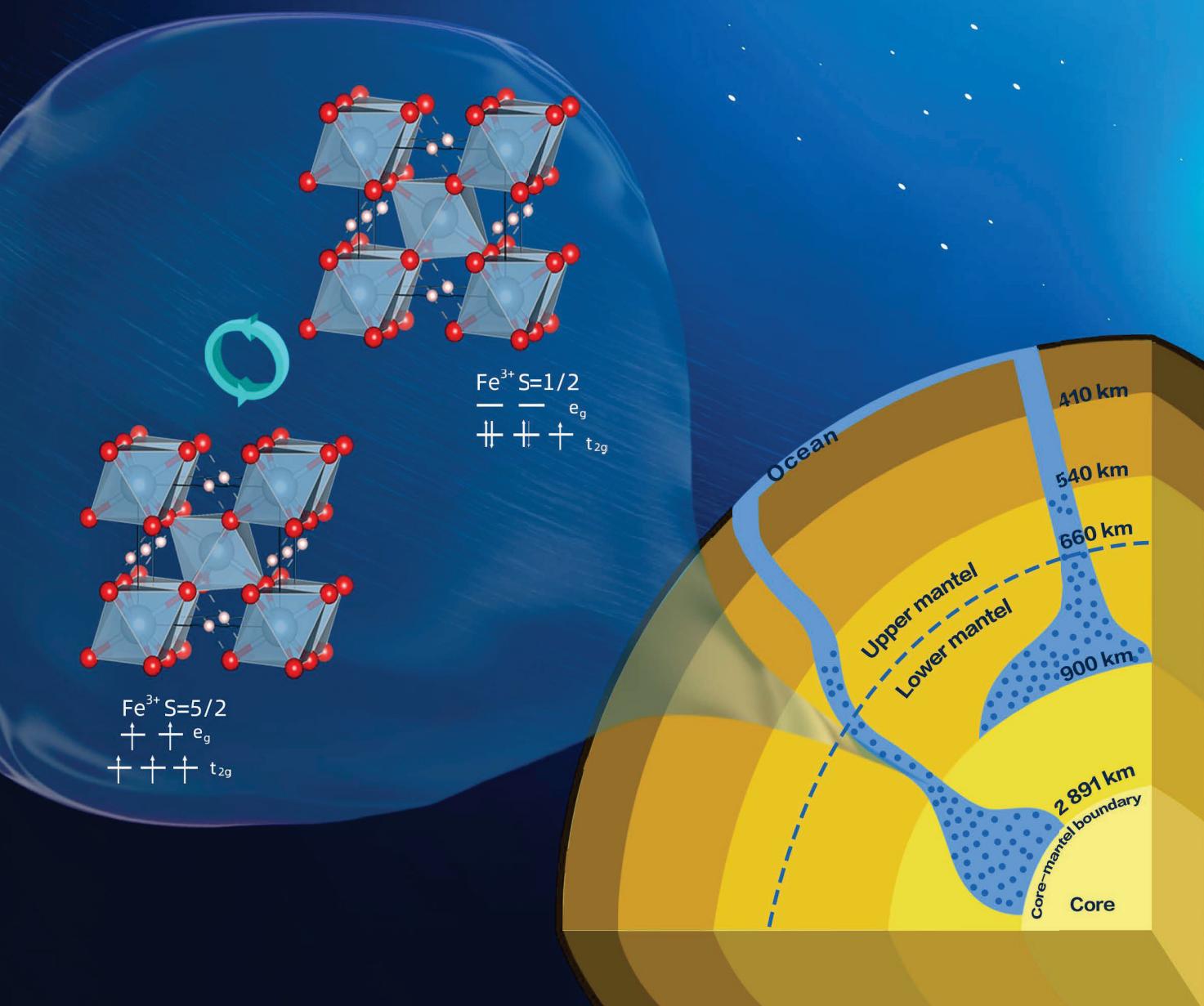




高压物理学报

CHINESE JOURNAL OF HIGH PRESSURE PHYSICS



δ -(Al,Fe)OOH的高压相变

王宝云, 肖万生, 宋茂双

2021·12

第35卷 第6期

Fe高压熔化线的
实验研究进展
甘波, 李俊, 蒋刚, 等

动态压力加载/卸载装置dDAC
及原位表征技术研究进展
苏磊, 杨国强

爆炸载荷下中空钢化夹层
玻璃的动态响应
牛欢欢, 张英杰, 李志强

高压物理学报

GAOYA WULI XUEBAO

1987年9月创刊
2021年12月
第35卷 第6期
(总第164期)

目 次

· 特别约稿与研究综述 ·

- Fe 高压熔化线的实验研究进展 甘 波, 李 俊, 蒋 刚, 张友君 060101
动态压力加载/卸载装置 dDAC 及原位表征技术研究进展 苏 磊, 杨国强 060102

· 高压物性与结构 ·

- 压力和碳含量调控 BC_xO 化合物物理性质的机理研究 刘 超, 应 盼 061101
 δ -(Al_xFe)OOH 的高压相变 王宝云, 肖万生, 宋茂双 061201

· 高压技术 ·

- 初始条件对氢氧爆轰气体炮内弹道性能的影响规律 胡天翔, 张庆明, 薛一江, 龙仁荣, 任思远 063301

· 高压下物质的动态响应 ·

- 动态预压缩对 CoCrFeNiMn 高熵合金微尺度压入硬度的影响
..... 许海涛, 邱 吉, 肖革胜, 姚永永, 树学峰 064101
爆炸载荷下中空钢化夹层玻璃的动态响应 牛欢欢, 张英杰, 李志强 064102
大尺度锤头冲击下固支方板的动响应分析 甘 霖, 伍星星, 王海坤, 刘建湖, 赵延杰 064103
固溶温度对 TB6 钛合金动态力学性能和微观组织的影响
..... 张 昭, 郭保桥, 冉 春, 陈 稳, 陈鹏万 064104
静、动态压缩下环氧树脂玻璃钢的力学行为和特性 张义黄, 李金柱, 武海军, 黄风雷 064105
不同 W 含量 Al/W 活性材料的冲击压缩特性 宋超慧, 任会兰, 李 尉, 郝 莉 064106
横向爆炸载荷下泡沫铝填充管的动态响应 张春云, 刘志芳 064201
节理几何参数对岩体力学特征的影响 王正堂, 张 禧, 王晨龙, 赵婷婷, 王志勇 064202
岩石钻孔爆炸致裂研究 郭晓钧, 文鹤鸣 064203

· 高压科学应用 ·

- 不同类型装药侵彻安全性数值模拟 白 晨, 杨 昆, 吴艳青, 高洪泉, 薛海蛟 065101
水下爆炸船体梁总体响应特性数值模拟 刘丽滨, 李海涛, 刁爱民, 张海鹏, 杨理华 065102
头部带肋板的异形结构弹体斜贯穿混凝土薄靶实验和数值模拟
..... 张健东, 武海军, 李 伟, 李金柱, 皮爱国 065103
RDX 塑性炸药的爆电耦合效应 刘 鹏, 简昊天, 张 秋, 朱 朋, 沈瑞琪 065201
丝瓜络对甲烷/空气预混气体的阻火抑爆性能
..... 贺云龙, 张玉铎, 袁必和, 陈先锋, 陈文涛, 杨满江, 王 馨, 陈公轻 065202
靶机气囊缓冲着陆过程中的冲击特性 段文琪, 蒲克强, 方 雄, 党万腾, 龙舒畅, 姚小虎 065301

CHINESE JOURNAL OF HIGH PRESSURE PHYSICS

Vol. 35, No. 6, 2021 (Sum No. 164)

CONTENTS

• Invited Article and General Review •

A Review of the Experimental Determination of the Melting Curve of Iron at Ultrahigh Pressures	GAN Bo, LI Jun, JIANG Gang, ZHANG Youjun	060101
Research Progress of Dynamic Pressure Loading/Unloading Device and <i>In-Situ</i> Characterization Technology	SU Lei, YANG Guoqiang	060102

• Physical Property and Structure •

Mechanism of Pressure and Carbon Content Regulating Physical Properties of BC _x O Compounds	LIU Chao, YING Pan	061101
Pressure-Induced Phase Transitions in δ-(Al,Fe)OOH	WANG Baoyun, XIAO Wansheng, SONG Maoshuang	061201

• High Pressure Technology •

Influence of Initial Conditions on the Interior Ballistic Performance of Hydrogen-Oxygen Detonation Gas Gun	HU Tianxiang, ZHANG Qingming, XUE Yijiang, LONG Renrong, REN Siyuan	063301
-------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------	--------

• Dynamic Response of Matter •

Effect of Dynamic Pre-Compression on Micro-Scale Indentation Hardness of CoCrFeNiMn High-Entropy Alloy	XU Haitao, QIU Ji, XIAO Gesheng, YAO Yongyong, SHU Xuefeng	064101
Dynamic Response of Hollow Tempered Laminated Glass under Explosive Load	NIU Huanhuan, ZHANG Yingjie, LI Zhiqiang	064102
Dynamical Response Behavior of Clamped Square Plates under the Impact of Large-Scale Hammer	GAN Lin, WU Xingxing, WANG Haikun, LIU Jianhu, ZHAO Yanjie	064103
Effect of Solution Temperature on Dynamic Mechanical Properties and Microstructure of TB6 Titanium Alloy	ZHANG Zhao, GUO Baoqiao, RAN Chun, CHEN Wen, CHEN Pengwan	064104
Mechanical Behavior and Failure Mechanism of Glass Fiber Reinforced Plastics under Quasi-Static and Dynamic Compressive Loading	ZHANG Xihuang, LI Jinzhu, WU Haijun, HUANG Fenglei	064105
Impact Compression Characteristics of Al/W Active Materials with Different W Additions	SONG Chaohui, REN Huilan, LI Wei, HAO Li	064106
Dynamic Response of Aluminum Foam Filled Pipes under Lateral Explosive Load	ZHANG Chunyun, LIU Zhifang	064201
Influence of Joint Geometrical Parameters on Mechanical Properties of Rock Mass	WANG Zhengtang, ZHANG Qi, WANG Chenlong, ZHAO Tingting, WANG Zhiyong	064202
Borehole Blasting-Induced Fractures in Rocks	GUO Xiaojun, WEN Heming	064203

• High Pressure Applications •

Numerical Simulation for PBX Charges Safety of Different Types During Penetration	BAI Chen, YANG Kun, WU Yanqing, GAO Hongquan, XUE Hajiao	065101
Numerical Simulation on Dynamic Responses of Hull Girder Subjected to Underwater Explosion	LIU Libin, LI Haitao, DIAO Aimin, ZHANG Haipeng, YANG Lihua	065102
Experiment and Numerical Simulation on Oblique Penetrating Concrete Targets by a Special-Shaped Projectile with Ribbed Head	ZHANG Jiandong, WU Haijun, LI Wei, LI Jinzhu, PI Aiguo	065103
Explosion-Electricity Coupling Effect of RDX Plastic Explosive	LIU Peng, JIAN Haotian, ZHANG Qiu, ZHU Peng, SHEN Ruiqi	065201
Fire and Explosion Suppression Performance of Luffa Sponge in Premixed Methane/Air Gas	HE Yunlong, ZHANG Yuduo, YUAN Bihe, CHEN Xianfeng, CHEN Wentao, YANG Manjiang, WANG Xin, CHEN Gongqing	065202
Impact Characteristics of Drone Aircraft in Airbag Cushion Landing	DUAN Wenqi, PU Keqiang, FANG Xiong, DANG Wanteng, LONG Shuchang, YAO Xiaohu	065301