

# 爆炸与冲击1996年(第16卷)分类题目索引

## 爆燃与爆轰

含能液滴在高压下爆燃性燃烧现象的研究 .....	余永刚 金志明	1 (47)
液体燃料点火温度的分歧研究 .....	方谋鑫 刘峰 余永刚 汪庆永	2 (130)
粉尘激波点火现象实验研究 .....	耿继辉 汤明钧	2 (143)
研究爆速直径效应的爆轰冲击波动力学方法 .....	孙承纬 赵峰 高文	3 (193)
高含能颗粒床中瞬变点传火过程的三维两相流数值模拟 .....	翁春生 金志明 袁亚雄	3 (202)
炸药导热系数的非补偿微热量法测定 .....	陈学林 楚士晋 唐水花 秦蛟	3 (266)
高能炸药爆轰波区反应区流场的拉格朗日分析方法 .....	张振宇 沈石 卢芳云 刘吉平	3 (271)
近地空气中气云爆炸波遇地面反射的研究 .....	徐胜利 汤明钧 廖仲泰	4 (298)
超高压环境下再生式喷雾燃烧过程的多维多相流数值模拟 .....	朱广圣 张月林 林均毅	4 (305)
弱约束条件下 NEPE 推进剂燃烧转爆轰研究 .....		
..... 贾祥瑞 黄风雷 沈石 孙锦山 池军智	4 (312)	
二维爆轰波 DSD 方法的非定态解析解 .....	洪滔 王继海	4 (317)

## 冲击波

液体推进剂爆炸理论与实验研究 .....	陈新华 张智 王振国 鄢小清 刘昆	1 (31)
腹部撞击伤时血流压力的变化对肝脏损伤的作用 .....		
..... 安波 刘荫秋 李曙光 陈林 王大田	1 (41)	
冲击载荷下扩展裂纹尖端动态能量释放率分布的焦散线分析 .....	姚学锋 方竞	2 (111)
粘塑性靶板中冲击波的演化 .....	李永池 龚红卫 李晚杰 陈立	3 (211)
等高变截面梁冲击动荷系数计算的研究 .....	王曙光 王一凡	3 (283)
冲击作用下凝聚态含能材料热点形成热-机械分析 .....	张泰华 赵壮华 范时俊	4 (333)

## 弹塑性波

特征线法在三维弹/粘塑性波数值解析中的应用 .....	刘凯欣 张凯	2 (137)
基于物理变量的热粘塑性本构模型 .....	程经毅 周光东	3 (218)

## 状态方程 本构关系

损伤弹性材料的有效模量及本构关系 .....	周光东 樊坚强	2 (123)
------------------------	---------	---------

## 材料动态性能

40Cr 材料动态起裂韧性 $K_{Id}(t)$ 的实验研究 .....		
..... 李玉龙 郭伟国 贾德新 刘元镛 罗景润 杜君 陈裕泽	1 (21)	
二级氢气炮靶室内杂质辐射特性的研究 .....	刘烈峰 胡栋 孙珠琳	1 (75)
三种合金在短时高温下的热软化研究 .....	刘宗德 丰树平 张宁 韩铭宝 孙承纬	2 (97)
韧性和脆性断裂的分形维数 .....	章冠人	2 (117)

低功率密度激光辐照结构的热动力失效 .....	陈裕泽	2	(149)
界面不稳定性引起湍流混合的二阶封闭模型 .....	张志珍 王继海	3	(232)
延性材料动态损伤演化模型研究 .....	邢立平 周光东	4	(349)
高强度榴弹钢的破片机理研究 .....	董瀚 李桂芬 陈南平	4	(367)
硬质聚氨酯泡沫塑料动态力学性能的研究 .....	胡时胜 刘剑飞 冯建平	4	(373)

### 高速碰撞

钨杆弹斜侵彻研究 .....	李大红 吴强 张汉钊 张晓东	2	(158)
脉冲 X 射线辐照材料引起的汽化反冲冲量 .....	赵国民 张若棋 汤文辉	3	(259)
高强低合金钢甲弧形弹侵彻速度与深度的计算 .....	李强 马常祥 赖祖涵 董丽娜	4	(349)
旋压药型罩的旋转补偿效应与旋压参数关系的研究 .....	王铁福 石连捷	4	(361)

### 爆炸驱动和动高压技术

粉末爆炸烧结材料参数效应数值研究 .....	张德良 王晓林	2	(105)
带壳有隔板聚能装药的实验研究 .....	高尔新 李建平 李景云	2	(166)
爆轰合成超细金刚石机理探讨 .....	陈权 恽寿熔	4	(326)

### 土岩及工程爆破

岩石爆破分形损伤模型研究 .....	杨军 王树仁	1	(5)
爆破地震效应若干问题的探讨 .....	李宏男 王炳乾 林奉	1	(61)
条形药包空腔发展过程模拟 .....	邓志勇 张志毅 王中黔	1	(86)
岩体爆破松裂区的损伤机制及其数值模拟 .....	张继春 刘浩吾	3	(250)
控制断裂能量与爆破效果的分形分析 .....	张奇 杨永琦	3	(278)
土中爆扩及其挤密效应的研究 .....	黄承贤	4	(354)

### 抗爆工程与爆破安全技术

应力波作用下颗粒介质的动力特性研究 .....	王明洋 钱七虎	1	(11)
沉积粉尘的激波点火 .....	陆守香 黄涛 龙新平 范宝春	1	(68)
条形药包空腔发展过程模拟 .....	卢文波 朱传云 赖世骥 董振华	2	(171)
计算三重复式交叉导爆管网路可靠度的随机过程法 .....	樊正复 姚尧 孟冲 师俊平	2	(185)
核爆 X 光辐照铝靶产生的脉冲应力波的简化解析估算 .....	李孝兰	3	(243)

### 炸药和爆炸器材

落锤试验中炸药样品表面能的多重分形性质 .....	章冠人	1	(1)
含能液滴在高压下爆裂性燃烧现象的研究 .....	余永刚 金志明	1	(47)
HAN 基液体发射药电点火特性的实验研究 .....	官汉章 栗保明 周彦煌	1	(53)
金属圆管在炸药滑移爆轰作用下的运动姿态 .....	赵国民 张若棋 王诚洪	1	(80)
硝酸铵的一种敏化技术 .....	惠君明 刘祖亮 吕春绪	2	(178)

### 实验方法与测试技术

二级氢气靶室内杂质辐射特性的研究 .....	刘烈峰 胡栋 孙珠妹	1	(75)
------------------------	------------	---	------

条形药包端部爆炸应力场的动光弹试验研究 .....	邓志勇	张志毅	王中黔	1	(86)
一种大爆破起爆系统激爆机理实验研究 .....			张克利	1	(91)
单脉冲加载的 Hopkinson 扭杆装置 .....	薛青	沈乐天	陈淑霞	白以龙	4 (289)

### 数值模拟与计算

高含能颗粒床中瞬变点传火过程的三维两相流数值模拟 .....	翁春生	金志明	袁亚雄	3	(202)
岩体爆破松裂区的损伤机制及其数值模拟 .....			张继春	刘浩吾	3 (250)
脉冲 X 射线辐照材料引起的汽化反冲冲量 .....	赵国民	张若棋	汤文辉	3	(259)
高能炸药爆轰波反应区流场的拉格朗日分析方法 .....	张振宇	浣石	卢芳云	刘吉平	3 (271)
近地空中气云爆炸波遇地面反射的研究 .....	徐胜利	汤明钧	糜仲春	4	(298)
超高压环境下再生式喷雾燃烧过程的多维多相流数值模拟 .....	朱广圣	张月林	林均毅	4	(305)
冲击作用下凝聚态含能材料热点形成热-机械分析 .....	张泰华	赵壮华	范时俊	4	(333)
延性材料动态损伤演化模型研究 .....	邢立平	周光柬		4	(341)
水中爆炸气泡脉动流场的数值计算 .....	李玉民	倪芝芳		4	(377)

## EXPLOSION AND SHOCK WAVES 1996(Vol. 16)

### ANALYTIC SUBJECT INDEX

#### Deflagration and Detonation

- A study on explosion combustion phenomenon of energetic droplet in high pressure environments ..... Yu Yonggang, Jin Zhiming 1( 47)
- Bifurcation study on the ignition temperature of liquid power .....  
..... Fang Mouxin, Liu Feng, Yu Yuonggang, Wang Qingyong 2(130)
- Experimental study of the ignition phenomena on suspended dust .....  
..... Geng Jihui, Tang Mingjun 2(143)
- A detonation shock dynamic approach to the diameter effect of explosive sticks ..... Sun Chengwei, Zhao Feng, Gao Wen 3(193)
- Numerical simulation of three-dimensional two-phase flow ignition and instantaneous process of flame spreading in high energy particle bed .....  
..... Weng Chunsheng, Jin Zhiming, Yuan Yaxiong 3(202)
- Determination of thermal conductivity of explosives by a noncompensation microcalorimetry method .....  
..... Chen Xuelin, Chu Shijin, Tang Shuihua, Qin Jiao 3(266)
- Lagrangian analysis of flow field in detonation reaction zone of high explosives ..... Zhang Zhenyu, Huan Shi, Lu Fangyun, Liu Jiping 3(271)
- Studies on reflection of blast waves for symmetric cloud explosion close to the ground ..... Xu Shengli, Tang Mingjun, Mi Zhongchun 4(298)
- Multiphase multidimensional numerical simulation of regenerative sprary combustion process in a superhigh pressure environment .....  
..... Zhu Guangsheng, Zhang Yuelin, Lin Junyi 4(305)
- An experimental study on DDT of NEPE propellant at weak confinement ...  
..... Jia Xiangrui, Huang Fenglei, Huan Shi, Sun Jinshan, Chi Junzhi 4(312)
- Analytical solution for unsteady two-dimensional detonation wave with DSD method ..... Hong Tao, Wang Jihai 4(317)

#### Shock Waves

- Theoretical and experimental studies for liquid rocket propellant explosion ...  
..... Chen Xinhua, Zhang Zhi, Wang Zhengguo, Yan Xiaoqing, Liu Kun 1( 31)
- Liver injury results from impact to the abdomen on the change of blood-fluid pressure..... An Bo, Liu Yinqiu, Chen Lin , Li Shuguang, Wang Datian 1( 41)
- Analysis of caustics on dynamic energy release rate of running crack tip under impact load ..... Yao Xuefeng, Fang Jing 2(111)

The evolution of shock waves in a viscoplastic slab .....  
 ..... Li Yongchi, Gong Hongwei, Li Xiaojie, Chen Li 3(211)

Research of the impact loading constant of a beam with equal height and variable cross sections (beam of equal strength) .....  
 ..... Wang Xiaoguang, Wang Yifan 3(283)

An thermomechanical analysis of shock-induced hot spot formation in condensed energetic materials.....Zhang Taihua, Zhao Zhuanghua, Fan Shijun 4(333)

**Elastic-Plastic Waves**

Application of characteristics method for numerical analysis of three-dimensional elastic/viscoplastic stress wave problems .....  
 ..... Liu Kaixing, Zhang Kai 2(137)

A thermo-visco-plastic constitutive model based on physical variables .....  
 ..... Cheng Jingyi, Zhou Guangquan 3(218)

**Equation of state, Constitutive Relation**

Effective moduli and constitutive relation of damaged materials .....  
 ..... Zhou Guangquan, Fan Jianqiang 2(123)

**Dynamic Properties of Materials**

Experimental measurement of dynamic fracture initiation toughness of 40Cr steel .....  
 ..... Li Yulong, Guo Weiguo, Jia Dexin, Liu Yuanyong, Luo Jingrun, Du Jun, Chen Yuze 1( 21)

Studies on the radiance characteristics of the impurity in the tank of a two-stage light gas gun .....  
 ..... Liu Liefeng, Hu Dong, Sun Zhumei 1( 75)

Studies on thermo-softening of three alloy under short time elevated temperature .....  
 ..... Liu Zongde, Feng Shuping, Zhang Ning, Han Mingbao, Sun Chengwei 2( 97)

Fractal dimensions of ductile and brittle fracture ..... Zhang Guanren 2(117)

Thermodynamic failure of the structures irradiated by laser beam with low power density ..... Chen Yuze 2(149)

A two-order-closed model of the interface instability induced turbulent mixing .....  
 ..... Zhang Zhongzhen, Wang Jihai 3(232)

Study on dynamic damage evolution of ductile materials .....  
 ..... Xing Liping, Zhou Guangquan 4(349)

Fracture behaviour of bomb casings of high strength steel .....  
 ..... Dong Han, Li Guifen, Chen Nanping 4(367)

- Study of the dynamic mechanical behaviour of rigid polyurethane foam .....  
 ..... Hu Shisheng, Liu Jianfei, Feng Jianping 4(373)

#### High-Velocity Impact

- Research of oblique penetration by rod projectile .....  
 ..... Li Dahong, Wu Qiang, Zhang Hanzhao, Zhang Xiaodong 2(158)
- The blowoff impulse on material due to pulsed X-ray radiation .....  
 ..... Zhao Guomin, Zhang Ruoqi, Tang Wenhui 3(259)
- Penetration of high strength low alloy steel with ogival projectile .....  
 ..... Li Qiang, Ma Changxiang, Lai Zuhan, Dong Lina 4(349)
- Studies on the relation between spin compensation and shear-forming parameters in shear-forming shaped charge liners ..... Wang Tiefu, Shi Lianjie 4(361)

#### Explosive Driving and Dynamic High Pressure Technique

- The numerical research of the effects of material parameters on powder explosive consolidation ..... Zhang Deliang, Wang Xiaolin 2(105)
- Experimental research on cased shaped charge with shaper .....  
 ..... Gao Erxin, Li Jianping, Li Jingyun 2(166)
- Exploration of the mechanism of synthesis ultradispersed diamond by detonation ..... Chen Quan, Yun Shourong 4(326)

#### Engineering Blast and Blast in Soil and Rocks

- Study on fractal damage model of rock fragmentation by blasting .....  
 ..... Yang Jun, Wang Shuren 1( 5)
- Studies on some problems on explosion earthquake responses .....  
 ..... Li Hongnan, Wang Bingqian, Lin Gao 1( 61)
- Dynamic photo-elastic studies of explosive stress field at the end of a linear charge ..... Deng Zhiyong, Zhang Zhiyi, Wang Zhongqian 1( 86)
- Damage mechanism and numerical simulation of the microcrack zone resulting from rock blasting ..... Zhang Jichun, Liu Haowu 3(250)
- Fractal analyse on controlled crack energy and blast effects .....  
 ..... Zhang Qi, Yang Yongqi 3(278)
- Study of blast-enlargement and compaction in soil ..... Huang Chengxian 4(354)

#### Blast Protecting Engineering and Explosion Safety Technology

- Studies on the dynamic properties for granular medium under stress wave ...  
 ..... Wang Mingyang, Qian Qihu 1( 11)

Shock ignition of dust layers .....  
 ..... Lu shouxiang,Huang Tao,Long Xinping,Fan Baochun ( 68)

Simulation of cavity expansion with strip-shaped explosive charge .....  
 ..... Lu Wenbo,Zhu Chuanyun,Lai Shixiang,Dong Zhenhua 2(171)

The stochastic process method to calculate the reliability of three tie double  
 crossed detonating fuse blasting network .....  
 ..... Fan Zhengfu,Yao Yao,Meng Chong,Shi Junping 2(185)

Simple analytical estimation for pulse stress waves in aluminium exposed to  
 nuclear explosion X-rays ..... Li Xiaolan 3(243)

**Explosion and Explosive Components**

Multifractal property of surface energy densities for an explosive sample under  
 drop test ..... Zhang Guanren 1( 1)

A study on explosion combustion phenomenon of energetic droplet in high  
 pressure environments ..... Yu Yonggang,Jin Zhiming 1( 47)

Electrical ignition characteristics of HAN-based liquid propellant .....  
 ..... Guan Hanzhang,Li Baoming,Zhou Yanhuang 1( 53)

Motion of metal tube under action of explosive slide detonation .....  
 ..... Zhao Guomin,Zhang Ruoqi,Wang Chenghong 1( 80)

A sensitizing technology of ammonium nitrate .....  
 ..... Hui Junming,Liu Zuliang,Lu Chunxu 2(178)

**Experiment Methods and Techniques**

Studies on the radiance characteristics of the impurity in the tank of a two-  
 stage light gas gun ..... Liu Liefeng,Hu Dong,Sun Zhumei 1( 75)

Dynamic photo-elastic studies of explosive stress field at the end of a linear  
 charge ..... Deng Zhiyong,Zhang Zhiyi,Wang Zhongqian 1( 86)

Experimental research on the excitation detonation mechanism of a detonation  
 system for large scale blasting ..... Zhang Keli 1( 91)

A new split Hopkinson torsional bar for single wave pulse loading .....  
 ..... Xue Qing,Shen Letian,Chen Shuxia,Bai Yilong 4(289)

**Numerical Modeling and Computation**

Numerical simulation of three-dimensional two-phase flow ignition and instan-  
 taneous process of flame spreading in high energy particle bed .....  
 ..... Weng Chunsheng,Jin Zhiming,Yuan Yaxiong 3(202)

---

Damage mechanism and numerical simulation of the microcrack zone resulting from rock blasting .....	Zhang Jichun,Liu Haowu	3(250)
The blowoff impulse on material due to pulsed X-ray radiation .....	Zhao Guomin,Zhang Ruoqi,Tang Wenhui	3(259)
Lagrangian analysis of flow field in detonation reaction zone of high explosives .....	Zhang Zhenyu,Huan Shi,Lu Fangyun,Liu Jiping	3(271)
Studies on reflection of blast waves for symmetric cloud explosion close to the ground .....	Xu Shengli,Tang Mingjun,Mi Zhongchun	4(298)
Multiphase multidimensional numerical simulation of regenerative sprary combustion process in a superhigh pressure environment .....	Zhu Guangsheng,Zhang Yuelin,Lin Junyi	4(305)
An thermomechanical analysis of shock-induced hot spot formation in condensed energetic materials .....	Zhang Taihua,Zhao Zhuanghua,Fan Shijun	4(333)
Study on dynamic damage evolution of ductile materials .....	Xing Liping,Zhou Guangquan	4(341)
Numerical calculation on flow field of the bubble pulse by explosion under water .....	Li Yumin,Ni Zhifang	4(377)