

## 爆炸与冲击1993年(第13卷)分类题目索引

### 爆燃与爆轰

- 铝粉爆炸特性的实验研究..... 丁大玉 浦以康 袁生学 汤明钧 王伯良 1 (32)  
炸药中爆轰波拐角绕射现象研究..... 刘举鹏 陈福梅 2 (105)  
点火延迟时间影响粉尘泄放爆炸压力的试验研究..... 王宝兴 张银花 马克辛 2 (131)  
微细球形铝粉爆炸特性的实验研究..... 浦以康 袁生学 丁大玉 王伯良 汤明钧 3 (193)  
爆轰波直接合成致密相氮化硼研究..... 牟瑛琳 恽寿榕 任业军 3 (205)  
汽油点火后 DDT 过程中自由基辐射特性的研究 ..... 胡 栋 孙殊妹 3 (257)

### 冲击波

- 系列生物激波管的研制与应用.....  
..... 王正国 孙立英 杨志焱 冷华光 俞鸿儒 谷荔华 李振华 李仲发 1 (77)  
从流场干涉图定量计算冲击波传播速度和压力.....  
..... 阎大鹏 苗鹏程 张 健 王海林 贾安之 3 (219)  
生物激波管及动物耐受性的实验研究.....  
..... 冷华光 王正国 杨志焱 李晓炎 俞鸿儒 谷荔华 李仲发 李振华 3 (272)

### 弹塑性波

- 端头带有质量块的悬臂梁在冲击载荷下的剪切失效..... 余同希 2 (97)  
预应力条件下轴对称圆板的响应解..... 陈裕泽 刘相臣 杨乐计 2 (153)  
静力预加载结构冲击屈曲的突变模型..... 王德禹 张善元 杨桂通 3 (243)  
用裂纹张开位移计算三点弯曲试样的动态应力强度因子..... 李玉龙 刘无铺 3 (249)  
应力波实时实验技术的若干问题..... 吕文涛 张继栋 3 (265)  
方管铝合金梁受子弹撞击时动力响应的实验研究..... 赵隆茂 李庆明 杨桂通 4 (313)

### 状态方程 本构关系

- 损伤引起的反向应变率效应及其对本构关系和热粘塑性失稳的影响.....  
..... 王礼立 包含胜 卢维炯 1 (1)  
修正 Bodner-Partom 本构模型 ..... 周益春 段祝平 3 (225)

### 材料动态性能

- 损伤引起的反向应变率效应及其对本构关系和热粘塑性失稳的影响.....  
..... 王礼立 包含胜 卢维炯 1 (1)  
钛合金动力学性能的研究..... 胡时胜 郭 勇 胡秀章 陈德华 张晓武 1 (18)  
内部爆轰加载下的钢管膨胀断裂研究..... 胡八一 董庆东 韩长生 王德生 胡海波 1 (49)

爆炸应力波对高速扩展裂纹影响的动态光弹性试验研究	朱振海	2	(178)
爆轰波直接合成致密相氮化硼研究	牟瑛琳 谭寿榕 任业军	3	(205)
局部冲击作用下刚塑性平板的动力响应和失效模式	陈发良 樊福如	3	(233)
静力预加载结构冲击屈曲的突变模型	王德禹 张善元 杨桂通	3	(243)
橡胶基复合靶抗贯穿特性的近似分析方法	李永池 王肖钧 邢春春 胡秀章	4	(289)
爆炸金属管绝热剪切断裂的细观研究	胡八一 董庆东 韩长生 胡海波 王德生	4	(305)
动载下韧性撕裂在三种管线钢材中传播阻力的研究	蒋 平	4	(343)

### 高速碰撞

超音速半穿甲弹丸壳体结构实验研究	叶本治 戴君全 杨桂红	2	(160)
------------------	-------------	---	-------

### 爆炸驱动和动高压技术

用于材料碰撞实验的一级轻气炮	王宁宇	1	(90)
电热炮原理性实验研究	周之奎 陈素年 邓利文	2	(186)
自锻弹丸缩比实验研究	刘文翰 李良忠 于 川 冯民贤 杨淑英	4	(351)
三锥 S 形聚能装药及其射流的性能分析	陈贤林 范中波	4	(320)

### 土岩及工程爆破

瞬态波作用下非线性岩石与非圆结构的相互作用	房管光 孙 钧	1	(55)
散体滑落与堆积规律的实验研究	许连坡 刘以钢 李金华	1	(65)
三轴 SHPB 冲击作用下岩石破坏机理的研究	王 林 于亚伦	1	(84)
断裂控制爆破开采石材机理的研究	刘文轩	2	(118)
冲击载荷下岩石动态应力-应变全图测试的合理加载波形	李夕兵 古德生 赖海辉	2	(125)
用灰关联分析方法确定影响岩石体爆破质量的主要因素	张继春 钮 强 徐小荷	3	(212)
论岩体软弱结构面对应力波传播的影响	李夕兵	4	(334)
宽孔距爆破拆除薄型混凝土地坪技术	魏菁华	4	(367)

### 抗爆工程与爆破安全技术

一座核电站空气管路爆炸的原因	郭预权 考夫曼 CW(美)	4	(327)
----------------	---------------	---	-------

### 炸药和爆炸器材

非均质固体炸药的冲击引爆临界能量判据研究	赵 峰 孙承纬 卫玉章	1	(41)
利用水下爆炸法评价火炸药爆炸危险性的研究	刘荣海 吉田忠雄(日) 田村昌三(日)	2	(110)
内装药管运动特性的理论计算	王伟力 陈生玉	2	(138)
RHT-902 和 Octol 炸药爆轰产物 JWL 状态方程研究	于 川 刘文翰 李良忠 杨淑英	2	(172)
工业炸药爆轰压力的简易测定	陆守香 张金城	3	(280)

### 实验方法与测试技术

磁探针速度传感器研究 .....	李欣增	唐志平	周光东	1	(23)
仪器车减震台的设计优化 .....			林俊德	2	(145)
爆炸应力波对高速扩展裂纹影响的动态光弹性试验研究 .....			朱振海	2	(178)
应力波实时实验技术的若干问题 .....	吕文涛		张继林	3	(265)
TP-5型半自动胶片判读仪及其在爆轰测试中的应用 .....			韩立石	4	(358)

### 数值模拟与计算

有限元畸变单元离散模型中SH波动 .....	刘晶波	姚玲	1	(9)	
瞬态波作用下非线性岩石与非圆结构的相互作用 .....	房管光	孙钧	1	(55)	
三轴SHPB冲击作用下岩石破坏机理的研究 .....	王林	于亚伦	1	(84)	
内装药管运动特性的理论计算 .....	王伟力	陈生玉	2	(138)	
高速碰撞中的有限元方法及其应用 .....	王肖钧	胡秀章	李永池	4	(296)

### 讲 座

用于材料碰撞实验的一级轻气炮 .....	王宁宇	1	(90)
----------------------	-----	---	------

## EXPLOSION AND SHOCK WAVES 1993 (Vol. 13)

### ANALYTIC SUBJECT INDEX

#### Deflagration and Detonation

- Experimental investigation of characteristics of aluminium dust explosions .....  
 ..... Ding Dayu, Pu Yikang, Yuan Shengxue, Tang Mingjun, Wang Boliang 1 (32)
- Studies on the detonation wave turning around a corner .....  
 ..... Liu Jupeng, Chen Fumei 2 (105)
- Experimental research on the influence of the ignition delay time on the dust explosion venting pressure ..... Wang Baoxing, Zhang Yinhua, Ma Kexin 2 (131)
- Investigation of explosion characteristics in fine aluminum dust-air mixtures .....  
 ..... Pu Yikang, Yuan Shengxue, Ding Dayu, Wang Boliang, Tang Minjun 3 (193)
- Direct synthesis of dense form boron nitride by detonation wave .....  
 ..... Mu Yinglin, Yun Shourong, Ren Yejun 3 (205)
- Studies of radical emission behaviours for ignited gasoline in the process of transition from deflagration to detonation ..... Hu Dong, Sun Znumei 3 (257)

#### Shock Waves

- The design production and application of a series of bio-shock tubes .....  
 ..... Wang Zhengguo, Sun Liying, Yang Zhihuan,  
 Leng Huaguang, Yu Hongru, Gu Jiahua, Li Zhenghua, Li Zhongfa 1 (77)
- Quantitative calculation of propagation velocity and pressure of shock waves from the interferograms of flow field .....  
 ..... Yan Dapeng, Miao Pengcheng, Zhang Jian, Wang Hailin, He Anzhi 3 (219)
- A biological shock tube and an experimental study on animal tolerance to blast wave .....  
 ..... Leng Huaguang, Wang Zhengguo, Yang Zhihuan,  
 Li Xiaoyan, Yu Hongru, Gu Jianhua, Li Zhongfa, Li Zhenghua 3 (272)

#### Elastic-Plastic Waves

- Shear failure of a cantilever with an attached mass block at the tip under impulsive loading ..... Yu Tongxi 2 (97)
- Transient response of prestressed axisymmetrical circular plates .....  
 ..... Chen Yuze, Liu Xiangchen, Yang Lebian 2 (153)
- A catastrophe model for the impact buckling of static preloading structures .....  
 ..... Wang Deyu, Zhang Shanyuan, Yang Guitong 3 (243)
- Calculation of DSIF of three point bending specimen using the method of DCOD .....  
 ..... Li Yulong, Liu Yuanyong 3 (249)

Several problems on real time experiments of stress wave .....		
..... Lu Wuntao, Zhang Jidong	3	(265)
Experimental investigation of hollow aluminium-alloy beams of square tube subject- ed to projectile impact at the mid-span .....		
..... Zhao Longmao, Li Qinging, Yang Guitong	4	(313)
<b>Equation of State, Constitutive Relation</b>		
The inverse strain-rate effect induced by-damage and its influence on constitutive re- lation and thermo-viscoplastic instability .....		
..... Wang Lili, Bao Hesheng, Lu Weixian	1	( 1 )
Modified Bodner-Partom constitutive equation .....	Zhou Yichun, Duan Zhuping	3 (225)
<b>Dynamic Properties of Materials</b>		
The inverse strain-rate effect induced by-damage and its influence on constitutive re- lation and thermo-viscoplastic instability .....		
..... Wang Lili, Bao Hesheng, Lu Weixian	1	( 1 )
Studies of dynamic mechanical properties of DU alloys .....		
..... Hu Shisheng, Guo Yong, Hu Xiuzhang, Chen Dehua, Zhang Xiaowu	1	( 18 )
Studies of expansion and fracture of explosive-filled steel cylinders .....		
... Hu Bayi, Dong Qingdong, Han Changsheng, Wang Desheng, Hu Haibo	1	( 49 )
Dynamic photoelastic investigations of the effect of explosive stress waves on an ex- tending-high speed crack .....		
..... Zhu Zhenhai	2	(178)
Direct synthesis of dense form boron nitride by detonation wave .....		
..... Mu Yinglin, Yun Shourong, Ren Yejun	3	(205)
Dynamic response and failure modes of an infinitely large rigid-plastic plate impacted by a rigid cylinder or a local impulse .....		
..... Chen Faliang, Fan Furu	3	(233)
A catastrophe model for the impact buckling of static preloading structures .....		
..... Wang Deyu, Zhang Shanyuan, Yang Guitong	3	(243)
An approximate analysis for anti-penetration properties of rubber-matrices composite targets .....		
..... Li Yongchi, Wang Xiaojun, Xing Chunchun, Hu Xiuzhang	4	(289)
Mesoscopic study of adiabatic shear fracture of the metal tubes under explosive loading .....		
...Hu Bayi, Dong Qingdong, Hu Haibo, Han Changsheng, Wang Desheng	4	(305)
Experimental investigation on material resistance against ductile tearing crack propa- gation during dynamic loading on three kinds of pipeline steel.....		
Jiang Ping	4	(343)
<b>High-Velocity Impact</b>		
Experimental studies on the structure of a supersonic semi-armor-piercing warhead .....		
..... Ye Benzhi, Dai Junquan, Yang Guihong	2	(160)
<b>Explosive Driving and Dynamic High Pressure Technique</b>		
The gas gun facility for material impact experiments .....		
..... Wang Ningyu	1	(90)

An experimental study of the principle for the electrothermal gun .....		
..... Zhou Znikui, Chen Shunian, Den Liweng	2	(186)
Scale experimental studies on the self forge fragmentation .....		
... Liu Wenhan, Li Liangzhong, Yu Chuan, Feng Minxian, Yang Shuying	4	(351)
Property analysis of a S-shape Cumulative charge with a tri-cone liner and its jet .....		
..... Chen Xianlin, Fan Zhongbo	4	(320)
<b>Engineering Blast and Blast in Soil and Rocks</b>		
Intreaction between nonlinear geo-medium and non-circular structure due to tran-		
sient wave .....	Fang Yingguang, Sun Jun	1 (55)
Experimental studies for the sliding fall of dividual bodies and its pile law .....		
..... Xu Lianpo, Lu Yiang, Li Jinhua	1	(65)
The dynamic fracture mechanism of rocks under SHPB confining pressure .....		
..... Wang Lin, Yu Yalun	1	(84)
Studies on the mechanism of fracture control blasting for mining rock materials ...		
..... Liu Wenxuan	2	(118)
On the reasonable loading stress waveforms determined by dynamic stress-strain		
curves of rocks by SHPB .....	Li Xibing, Gu Desheng, Lai Haihui	2 (125)
Determination of principal factors affecting the quality of rock blasting with grey		
correlation analysis .....	Zhang Jichun, Niu Qiang, Xu Xiaohu	3 (212)
Influence of the structural weakness planes in rock mass on the propagation of stress		
waves .....	Li Xibing	4 (334)
Demolition of thin concrete ground with a wide explosion hole distance .....		
..... We Jinghua	4	(367)
<b>Blast Protection Engineering and Explosion Sefey Technology</b>		
Cause of the air line explosion at a nuclear plant .....		
..... Guo Yuquan, Kauffman C W (美)	4	(327)
<b>Explosive and Explosive Components</b>		
Critical energy criterion for the shock initiation of heterogeneous explosives .....		
..... Zhao Feng, Sun Chengwei, Wei Yuzhang	1	(41)
A study on evaluation of explosion hazards of propellants and explosives by under-		
water explosion method .....		
..... Liu Ronghai, Tadao Yoshida, Masamitsu Tamura	2	(110)
Thoretical computation for moving characteristics of an inner tube with explosive		
..... Wang Weill, Chen Sengyu	2	(138)
Studies on the JWL equation of state of detonation products for RHT-902 and Octol		
..... Yu Chuan, Liu Wenhan, Li Liangzhong, Yang Shuying	2	(172)
A simple method for determining the detonation pressure in industrial explosives		
..... Lu Shouxiang, Zhang Jincheng	3	(280)

### Experiment Methods and Techniques

- Study on magnetic needles as velocity gauges .....  
 ..... Li Xinzen, Tang Zhiping, Zhou Guangquan 1 (23)
- Optimization on the design of a shock-isolating platform used for instrument vehicles  
 ..... Liu Junde 2 (145)
- Dynamic photoelastic investigations of the effect of explosive stress waves on an extending-high speed crack ..... Zhu Zhenhai 2 (178)
- Several problems on real time experiments of stress wave .....  
 ..... Lu Wuntao, Zhang Jidong 3 (265)
- Semi-automation interprotoscope model TP-5 and its applications on detonation experiment ..... Han Lishi 4 (358)

### Numerical Modeling and Computation

- SH wave motion in distortional finite element discrete models .....  
 ..... Liu Jingbo, Yao Ling 1 (9)
- Intreaction between nonlinear geo-medium and non-circular structure due to transient wave ..... Fang Yingguang, Sun Jun 1 (55)
- The dynamic fracture mechanism of rocks under SHPB confining pressure .....  
 ..... Wang Lin, Yu Yalun 1 (84)
- Thoretical computation for moving characteristics of an inner tube with explosive  
 ..... Wang Weill, Chen Sengyu 2 (138)
- Finite element methods and it's use in hypervelocity impact .....  
 ..... Wang Xiaojun, Hu Xiuzhang, Li Yongchi 4 (296)

### Lecture

- The gas gun facility for material impact experiments ..... Wang Ningyu 1 (90)