

ISSN 1672-9242
CN 50-1170/X

装备环境工程

Equipment Environmental Engineering

中国科技核心期刊

主办单位：中国兵器工业第五九研究所
国防科技工业自然环境试验研究中心

第15卷 第9期 2018年9月



装备环境工程

ZHUANGBEI HUANJING GONGCHENG

Vol. 15 No. 9 September 25, 2018

“飞机结构动力学设计、分析与试验技术研究”专刊

目 次 CONTENTS

1 高速球形弹丸对飞机油箱结构的毁伤效应影响

Damage Effect of Aircraft Fuel Tank Structure under Spherical Projectile Impact at High Speed

张宇, 王彬文, 刘小川, 惠旭龙, 舒挽

ZHANG Yu, WANG Bin-wen, LIU Xiao-chuan, HUI Xu-long, SHU Wan

7 含弹内埋弹舱缩尺模型气动噪声特性研究

Characteristics of Aerodynamic Noise in Scale Model of Weapon Bay

刘兴强, 黄文超, 郭定文, 延浩, 宁方立

LIU Xing-qiang, HUANG Wen-chao, GUO Ding-wen, YAN Hao, NING Fang-li

12 某梁结构静动联合加载疲劳研究试验件设计与分析

Design and Analysis of Test Pieces for Static and Dynamic Combined Fatigue of a Beam Structure

张颖, 王轲

ZHANG Ying, WANG Ke

16 机翼带外挂高阶高频颤振特性研究

High-order & High-frequency Flutter Characteristic of Wing Carrying Plug-in Weapons

陈立勇, 魏榕祥, 项小平, 王钱伟

CHEN Li-yong, WEI Rong-xiang, XIANG Xiao-ping, WANG Qian-wei

21 爆炸螺栓分离对热防护系统冲击响应分析

Impact Response of Thermal Protection System under Explosive Bolt Separation Procedure

陈炎, 金伟, 王用岩, 黄虎

CHEN Yan, JIN Wei, WANG Yong-yan, HUANG Hu

26 全复合材料翼面振动主动控制技术研究

Active Vibration Control of Full Composite Wing

雷鸣, 李阳, 寇宝智

LEI Ming, LI Yang, KOU Bao-zhi

32 民用飞机机体连接结构动刚度计算分析及试验验证

Dynamic Stiffness Analysis and Test Validation on Connecting Structure of Civil Aircraft

任永锋, 严玲

REN Yong-feng, YAN Ling

37 内埋弹舱典型结构振动响应分析与试验验证

Analysis and Test Verification of Typical Structural Vibration Response of Internal Weapon Bay

沈重, 王虎寅, 赵斌, 陈忠明

SHEN Zhong, WANG Hu-yin, ZHAO Bin, CHEN Zhong-ming

41 基于统计能量分析的热效应对高频声振响应影响研究

Influences of Thermal Effect on High-frequency Vibro-acoustic Response Based on Statistical Energy Analysis

王用岩, 金伟, 付焕兵, 黄虎

WANG Yong-yan, JIN Wei, FU Huan-bing, HUANG Hu

48 战斗机座舱内气动噪声分析

Aero-acoustic Analysis on Fighter Cockpit

韦毅, 斯仁, 贾楠非, 伍国卿

WEI Yi, SI Ren, JIA Nan-fei, WU Guo-qing

54 气囊回收系统的着陆适应性仿真分析

Landing Adaptability Simulation Analysis of Airbag Recovery System

赵炳旗, 徐振亮, 吴胜宝, 何欢, 陈国平

ZHAO Bing-qi, XU Zhen-liang, WU Sheng-bao, HE Huan, CHEN Guo-ping

- 61 涡轮叶片高温振动特性试验技术研究
Test Technologies for High Temperature Vibration Characteristics and Turbine Blade
高翔, 燕群, 杭超, 由于
GAO Xiang, YAN Qun, HANG Chao, YOU Yu
- 66 聚碳酸酯中低应变率范围下动态力学性能研究
Dynamic Mechanical Property of Polycarbonate under Intermediate and Low Strain Rates
葛宇静, 白春玉, 惠旭龙, 舒挽
GE Yu-jing, BAI Chun-yu, HUI Xu-long, SHU Wan
- 71 基于扫描式激光多普勒测振仪的叶片工作变形研究
Operational Deflection Shape of a Blade Based on Scanning Laser Doppler Velocimeter
杭超, 燕群, 黄文超
HANG Chao, YAN Qun, HUANG Wen-chao
- 76 一种模拟动力学边界条件的环境振动试验方法研究
Dynamic Simulation of Boundary Conditions in Environment Vibration Experiment
何石, 王龙, 张治君
HE Shi, WANG Long, ZHANG Zhi-jun
- 81 碳纤维增强复合材料的中低应变率力学性能试验研究
Mechanical Properties of Carbon Fiber Reinforced Composite Materials under Intermediate Strain Rate
惠旭龙, 刘小川, 白春玉, 舒挽, 葛宇静
HUI Xu-long, LIU Xiao-chuan, BAI Chun-yu, SHU Wan, GE Yu-jing
- 85 某型飞机起落架舱上蒙皮振动测量与分析
Vibration Measurement an Analysis of a Certain Aircraft Wheel Wells Skin
陶刘远, 曾俊, 张颖
TAO Liu-yuan, ZENG Jun, ZHANG Ying
- 92 基于有限元分析的橡胶减振器优化设计
Structure Optimization of Rubber Absorber Based on Finite Element Analysis
苏勃
SU Bo
- 96 直升机主减反共振隔振系统中附加阻尼器的影响分析
Influences of Damping Applied in Helicopter Main Anti-resonance Vibration Isolation System
熊峰, 王轲
XIONG Feng, WANG Ke
- 101 某机载设备隔振安装设计分析与试验研究
Mounted Design and Test for Vibration Isolation of Airborne Equipment
杨强, 师永宁, 杨利
YANG Qiang, SHI Yong-ning, YANG Li
- 107 AO-80/201 树脂/BIIR 共混阻尼橡胶动态力学性能研究
Damping Mechanical Properties of Mixed Damping Rubber of 201 Phenolic Resin/AO-80 Hindered Phenol/BIIR
赵苗苗, 段宇星, 王建强
ZHAO Miao-miao, DUAN Yu-xing, WANG Jian-qiang

广告索引

封底	封三前
国防科技工业自然环境试验研究中心	1. 中国兵器工业第五九研究所
封二	2. 装备环境工程
重庆银河试验仪器有限公司	
封三	
《装备环境工程》杂志理事会名单	

期刊基本参数: CN 50-1170/X*1983*m*A4*110*zh*P* ¥ 45.00*5000*21*2018-09