

装备环境工程

ZHUANGBEI HUANJING GONGCHENG

Vol. 21 No. 7 Jul. 25, 2024

目次 CONTENTS

专题——装备长期复杂自然环境效应分析、验证与评价

Special Topic—Analysis, Verification and Evaluation of Equipment Long-term Complex Natural Environment Effect

- 1 基于相对熵权重组合的多阶段贮存数据融合评估方法
A Multi-stage Storage Data Fusion Evaluation Method Based on Relative Entropy Weight Combination
张生鹏, 倪瑞政, 徐如远, 马小兵, 李宏民
ZHANG Shengpeng, NI Ruizheng, XU Ruyuan, MA Xiaobing, LI Hongmin
- 9 装备典型材料循环盐雾加速腐蚀行为与机理研究
Accelerated Corrosion Behavior and Mechanism of Typical Material for Equipment by Cyclic Salt-Spray Test
赵朋飞, 郭文营, 文磊, 吴俊升, 魏小琴
ZHAO Pengfei, GUO Wenyong, WEN Lei, WU Junsheng, WEI Xiaoqin
- 19 复杂环境应力下典型机电产品贮存-值班寿命加速试验方法研究
Accelerated Test Method for Storage-Duty Life of Typical Electromechanical Products under Complex Environmental Stress
荣双龙, 赵朋飞, 刘艳, 王增凯
RONG Shuanglong, ZHAO Pengfei, LIU Yan, WANG Zengkai
- 28 导弹长期复杂环境适应性加速试验设计方法
Accelerated Test Design Method for Long-term and Complex Environmental Adaptability of Missile
王增凯, 刘艳, 陈江攀, 刘艺, 孙立敏, 孙一凡
WANG Zengkai, LIU Yan, CHEN Jiangpan, LIU Yi, SUN Limin, SUN Yifan
- 36 复合材料复杂环境效应加速试验设计及评估方法
Accelerated Test Design and Evaluation Method of Composites Considering Complex Environmental Effects
赵朋飞, 李昊, 刘艳, 王增凯, 张生鹏
ZHAO Pengfei, LI Hao, LIU Yan, WANG Zengkai, ZHANG Shengpeng
- 45 典型海洋环境碳纤维增强树脂基复合材料老化规律研究
Aging Law of Carbon Fiber Reinforced Resin Matrix Composite in Typical Marine Environments
丁康康, 陈志强, 姜浩, 刘少通, 郭为民, 徐铖, 侯健
DING Kangkang, CHEN Zhiqiang, JIANG Hao, LIU Shaotong, GUO Weimin, XU Cheng, HOU Jian
- 53 隔热复合材料湿热老化行为与贮存寿命研究
Heat and Humid Aging Behaviour and Storage Life of Heat-Resistance Composite Materials
郭文营, 仲莹莹, 郑玉侠, 李轩, 赵起越, 吴昊, 张昕, 李天梅, 李彬, 姚美琪
GUO Wenyong, ZHONG Yingying, ZHENG Yuxia, LI Xuan, ZHAO Qiyue, WU Hao, ZHANG Xin, LI Tianmei, LI Bin, YAO Meiqi
- 60 极地低温冻融循环环境下高强钢的腐蚀行为研究
Corrosion Behavior of High-strength Steel under Polar Low-temperature Freeze-thaw Cycle Environment
辛永磊, 彭文山, 温杰平, 侯健, 孙明先
XIN Yonglei, PENG Wenshan, WEN Jieping, HOU Jian, SUN Mingxian

武器装备 Weapons Equipment

- 67 高速催泪射流轨迹分析及抗风性能实验研究
Trajectory Analysis of High-speed Lachrymatory Jet and Experimental Research on Its Wind-resistant Performance
陈磊, 李海鹏, 杨广明, 李志豪, 王征
CHEN Lei, LI Haipeng, YANG Guangming, LI Zhihao, WANG Zheng
- 74 小型发射箱激波开盖过程数值仿真
Numerical Simulation for Opening Process of Small Missile Launcher Cover Based on Shock Wave
白云, 廖茂雄, 甄慧强, 李健, 杜弘明, 周三合, 张轲
BAI Yun, LIAO Maoxiong, ZHEN Huiqiang, LI Jian, DU Hongming, ZHOU Sanhe, ZHANG Tao
- 82 爆炸分离冲击下中远场连接界面多点时域载荷反演方法研究
Multi-point Time Domain Load Identification of Connection Interface at Middle and Far Fields in Explosion Separation
胡杰, 方叶
HU Jie, FANG Ye

航空航天装备 Aviation and Aerospace Equipment

89 某型涡轴发动机燃气涡轮转速跳变故障分析

Fault Analysis of Gas Turbine Speed Jump in a Certain Type of Turboshaft Engine

宋宇航, 樊建楼, 孟庆骁, 樊伟杰, 关丁铭, 时越

SONG Yuhang, FAN Jianlou, MENG Qingxiao, FAN Weijie, GUAN Dingming, SHI Yue

96 基于 CFD 的系留气球表面结冰研究

Research on Surface Icing of Tethered Balloon Based on CFD

蒋鹏程, 余莉

JIANG Pengcheng, YU Li

103 基于电磁力的机翼非接触式加载试验平台特性研究

Characteristics of Non-contact Wing Mechanics Loading Test Platform Based on Electromagnetic Field

李珊山, 陈先民, 弯港, 庞宝才, 梁源博

LI Shanshan, CHEN Xianmin, WAN Gang, PANG Baocai, LIANG Yuanbo

112 超高速撞击蜂窝夹芯板的弹丸形状效应数值模拟研究

Numerical Simulation of Projectile Shape Effect on Honeycomb Sandwich Panels Impacted at Ultra-high Velocity

李鑫冰, 赵翼飞, 吴彼

LI Xinbing, ZHAO Yifei, WU Bi

124 直升机高频吸振器性能测试试验方法研究

Research on Performance Test Method for Helicopter High Frequency Vibration Absorber

孙卫兵, 苏宏庆, 王凤娇, 马昆

SUN Weibing, SU Hongqing, WANG Fengjiao, MA Kun

船舶及海洋工程装备 Ships and Marine Engineering Equipment

132 疏浚用 Q235 钢和高锰钢冲刷腐蚀机理研究

Erosion-corrosion Mechanism of Q235 Steel and High Manganese Steel for Dredging

陈浩, 李丹, 刘永飞, 姚海元, 陈景杰, 徐云泽

CHEN Hao, LI Dan, LIU Yongfei, YAO Haiyuan, CHEN Jingjie, XU Yunze

140 牺牲阳极参数对直翼桨阴极保护效果影响研究

Influence of Sacrificial Anode Parameters on Cathodic Protection for Cycloidal Propellers

陈波, 刘爱兵, 宋航, 杨文凯, 张迪, 刘广义

CHEN Bo, LIU Aibing, SONG Hang, YANG Wenkai, ZHANG Di, LIU Guangyi

重大工程装备 Key Projects Equipment

148 齿轮箱内部激励下振动噪声仿真研究

Simulation Study on Vibration and Noise of Gearbox under Internal Excitation

钟睦, 王延靖, 姚术健

ZHONG Mu, WANG Yanjing, YAO Shujian

159 MOX 燃料与包壳化学相互作用研究进展

Research Progress on Chemical Interaction between MOX Fuel and Cladding

韩华, 汤琪, 程焕林

HAN Hua, TANG Qi, CHENG Huanlin

169 高性能纤维增强气凝胶复合材料在动力电池热防护领域应用进展

Application Progress of High Performance Fiber Reinforced Aerogel Composites in Thermal Protection of Power Battery

杨旭, 苏岳锋, 任勇, 张友群, 杨子昕, 吴永鹏, 王洋, 林禹

YANG Xu, SU Yuefeng, REN Yong, ZHANG Youqun, YANG Zixin,

WU Yongpeng, WANG Yang, LIN Yu

广告索引

封底	封三前
装备自然环境试验研究中心	1. 广东莱伯通试验设备有限公司
封二	2. 重庆哈丁环境试验技术股份有限公司
重庆银河试验仪器有限公司	3. 西南技术工程研究所
封三	4. 西南技术工程研究所环境试验与检测中心
《装备环境工程》杂志第四届理事会	5. 新材料及表面工程研究中心
	6. 《装备环境工程》期刊融合发展平台

期刊基本参数: CN 50-1170/X*1983*m*A4*182*zh*P* ¥ 45.00*2500*21*2024-7