

装备环境工程

ZHUANGBEI HUANJING GONGCHENG

Vol. 21 No. 1 Jan. 25, 2024

目 次 CONTENTS

武器装备 Weapons Equipment

1 随机振动加速度响应谱及与冲击等效性分析

Acceleration Response Spectrum of Random Vibration and Equivalence Analysis with Shock Test
陈江攀, 刘艳, 刘艺, 王增凯, 孙立敏

CHEN Jiangpan, LIU Yan, LIU Yi, WANG Zengkai, SUN Limin

9 高速动能弹撞击装甲结构引起的螺栓连接失效及部件过载损伤研究

Investigation of Failure of Bolt Connection and Damage of Overloaded Component Caused by Armored Structure Impacted by High Velocity Kinetic Energy Projectile
覃金贵, 王马法, 潘瑛, 刘廷国, 李润蔚, 刘吉安, 黄洁

QIN Jingui, WANG Mafa, PAN Ying, LIU Tingguo, LI Runwei, LIU Ji'an, HUANG Jie

19 基于故障树分析法的舰载武器装备电子元器件及 PCB 的失效研究

Failure Study of Electronic Components and PCB of Shipborne Weapon Equipment Based on Fault Tree Analysis
吴尽哲, 马知远, 郭月婷, 雷增垚, 吴文全

WU Jinzhe, MA Zhiyuan, GUO Yueling, LEI Zengyao, WU Wenquan

航空航天装备 Aviation and Aerospace Equipment

26 含预制缺陷 PLA 蜂窝加筋结构承载力分析

Analysis of Bearing Capacity of PLA Honeycomb Reinforced Structure with Prefabricated Defects
辛雨柯, 邓庆田, 宋学力, 李新波, 温金鹏

XIN Yuke, DENG Qingtian, SONG Xueli, LI Xinbo, WEN Jinpeng

35 2219 钛合金 TIG 焊缝激光冲击强化与腐蚀性能研究

Effect of Laser Shock Strengthening on the Corrosion Properties of 2219 Aluminum Alloy in the Propellant of Tungsten Inter-gas Arc Welding
郝楠, 王焕春, 黄丹, 马岚, 曹宇浩, 慕晓刚, 王煊军

HAO Nan, WANG Huanchun, HUANG Dan, MA Lan, CAO Yuhao, MU Xiaogang, WANG Xuanjun

44 单自由度自动翻转平台力学特性研究

Mechanic Property of Automatic Overturning Platform with Single Degree of Freedom
刘晓晨, 王飞, 崔巍, 吴佳佳, 钱鸣, 毛阙康

LIU Xiaochen, WANG Fei, CUI Wei, WU Jiajia, QIAN Ming, MAO Kankang

52 不锈钢板式热沉传热特性的实验与模拟研究

Experiment and Simulation Research on Heat Transfer Performance of Stainless Steel Plate Heat Sink
尹大勇, 龚洁, 周盈, 杨雪, 金玮安

YIN Dayong, GONG Jie, ZHOU Ying, YANG Xue, JIN Weian

59 基于 Arrhenius 模型和 Peck 模型的分段非线性加速模型

Segmented Nonlinear Acceleration Model Based on Arrhenius and Peck Models
王者蓝, 侯清源, 汤杰, 陈洋, 赵宏杰, 姚军

WANGZhelan, HOU Qingyuan, TANG Jie, CHENYang, ZHAO Hongjie, YAO Jun

66 某型波段开关瞬动动作特性及失效机理

Instantaneous Action Characteristics and Failure Mechanism of a Certain Band Switch
杜翠玲, 黄飞波, 罗华北, 刘克刚, 梅宇飞, 薛建军, 贺独醒

DU Cuiling, HUANG Feibo, LUO Huabei, LIU Kegang, MEI Yufei, XUE Jianjun, HE Duxing

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

74 成组法疲劳试件个数选取方法研究

Selection Method of the Number of Fatigue Specimens by Group Method
张凡, 王艺陶, 王丹, 竺一峰

ZHANG Fan, WANG Yitao, WANG Dan, ZHU Yifeng

81 某东南沿海电厂钢结构腐蚀影响因素分析

Analysis of Corrosion Factors of Steel Structure in a Southeast Coastal Power Plant

郑国, 吴国威, 郑观文, 邓培昌

ZHENG Guo, WU Guowei, ZHENG Guanwen, DENG Peichang

89 海上风电基础阴极保护技术研究

Cathodic Protection Technology for Offshore Wind Power Foundation

和一帆, 金曦, 孙吉星, 王晖瑜, 秦铁男, 孙兆恒, 陈武, 黄渤, 徐云泽

HE Yifan, JIN Xi, SUN Jixing, WANG Huiyu, QIN Tienan,

SUN Zhaoheng, CHEN Wu, HUANG Bo, XU Yunze

96 舱外设备箱体模拟海洋大气环境中的加速腐蚀试验与结果分析

Accelerated Corrosion Test and Result Analysis of Extracurricular Equipment Box in Simulated Marine Atmospheric Environment

朱玉琴, 李佳蒙, 代璐, 王莞, 张薇

ZHU Yuqin, LI Jiameng, DAI Lu, WANG Wan, ZHANG Wei

重大工程装备 Key Projects Equipment

105 6A01-T5 铝合金/304 不锈钢的缝隙腐蚀行为研究

Crevice Corrosion Behavior of 6A01-T5 Aluminum Alloy/304 Stainless Steel

孙晓光, 王鹏跃, 王睿, 王岗, 台闯

SUN Xiaoguang, WANG Pengyue, WANG Rui, WANG Gang, TAI Chuang

114 基于 AVMD 与 DPC-FCM 的旋转机械无监督故障诊断方法

Unsupervised Fault Diagnosis of Rotating Machinery Based on AVMD and DPC-FCM Algorithm

武雅曼, 谌鹏, 张滇, 刘天, 唐剑

WU Yaman, CHEN Peng, ZHANG Dian, LIU Tian, TANG Jian

环境试验与观测 Environmental Test and Observation

121 智能巡检机器人在自然环境试验中的应用探讨

Discussion on Application of Intelligent Inspection Robots in Natural Environment Experiments

黄伦, 朱玉琴, 舒畅, 周俊炎, 代璐, 张志豪, 何德洪

HUANG Lun, ZHU Yuqin, SHU Chang, ZHOU Junyan, DAI Lu, ZHANG Zhihao, HE Dehong

127 岛礁环境对吊耳疲劳性能影响研究

Effect of Island-Reef Environment on Fatigue Performance of Lifting Lug

吴洋, 王玲, 胡涛, 李茜, 孙有美, 秦艳军, 张先勇

WU Yang, WANG Ling, HU Tao, LI Qian, SUN Youmei, QING Yanjun, ZHANG Xianyong

135 海岛应急保障设备防潮防尘防盐雾一体化微环境控制技术及性能验证

Integrated Micro-environment Control Technology and Performance Verification of Island Emergency Support Equipment Against Moisture, Dust and Salt Spray

刘元海, 陈川, 李秋平, 张鑫

LIU Yuanhai, CHEN Chuan, LI Qiuping, ZHANG Xin

142 热带海洋大气环境氯离子浓度立体化观测技术研究

Three-dimensional Observation Technology of Chloride Ion Concentration in Tropical Marine Atmospheric Environment

李旭, 刘聪, 张宸, 文静, 郭赞洪, 吴帅, 李昊瑜

LI Xu, LIU Cong, ZHANG Chen, WEN Jing, GUO Zanhong, WU Shuai, LI Haoyu

149 汽车零部件金属卤素灯阳光模拟试验与户外自然曝晒的相关性研究

Correlation of Sunlight Simulation Test of Metal Halide Lampfor Automotive Parts and Outdoor Exposure

黄涛, 张恒

HUANG Tao, ZHANG Heng

广告索引

封底

封三前

东莞市众志检测仪器有限公司

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