

目 次

✧ 专家论坛 ✧

- 1 基于傅里叶描述子的手势轨迹模板匹配方法 刘电霆,梁桂宾

✧ 结构设计 ✧

- 6 某碳纤维机载电子机架设计及仿真分析 张 翼,王恒海,黄春江
10 某船载雷达稳定平台的结构设计及分析 朱红发,赵明利
14 机载主被动一体化微波探测器结构设计与分析
..... 刘 瑞,李宁杰,王光辉,陈冠宇,栾英宏,孙彦龙,徐红新,赵 锋

✧ 环境适应性设计 ✧

- 18 基于数值模拟的便携式机箱热仿真分析和设计 王永豪
22 浮动蒸汽腔散热器性能测试与仿真回归分析 刘 帆,李 帅,李碧莹
26 计及太阳辐射的充电机散热分析及优化 马 超,周一心,刘国鹏,顾进飞
30 某电子设备连接螺钉冲击松动原因分析 刘 杰,李 佳,常选仓,冯志新
34 某电子设备整机结构热设计 刘 斌,牟长军,王 立,郑延帅

✧ 制造工艺 ✧

- 38 金铝键合体系服役寿命评价方法研究 王越飞,顾春燕,崔 凯,纪 乐,胡永芳
42 氮化铝多层共烧陶瓷基板的化学镀镍钯金技术 张静波,牛 通,崔 凯,胡永芳,王从香
46 镁锂合金搅拌摩擦焊及电子束焊研究 宋奎晶,董志波,李 洋,李冬梅,朱 帅,吕 磊,罗俊睿
51 基于氮化铝 HTCC 基板的化学镀镍硼工艺研究 吴 晶,王从香,牛 通,吕安国,崔 凯
55 高深径比 TSV 填孔电镀技术 牛 通,李 浩,崔 凯,王从香

✧ 创新与探索 ✧

- 60 基于LADRC的电动舵机高动态控制方法 张 强,张 军,蔡叔林,罗明亮,黄佳怡,张晓澈
万方数据

CONTENTS**Expert Forum**

Gesture Trajectory Template Matching Based on Fourier Descriptors LIU Dianting, LIANG Guibin (1)

Structure Design

Design and Simulation Analysis of an Airborne Electronic CFPR Frame ZHANG Yi, WANG Henghai, HUANG Chunjiang (6)

Structural Design and Analysis of a Shipborne Radar Stabilization Platform ZHU Hongfa, ZHAO Mingli (10)

Structure Design and Analysis of Airborne Active and Passive Microwave Sounder LIU Rui, LI Ningjie, WANG Guanghui, CHEN Guanyu, LUAN Yinghong, SUN Yanlong, XU Hongxin, ZHAO Feng (14)

Environment Adaptability Design

Thermal Simulation Analysis and Design of Portable Cabinet Based on Numerical Simulation WANG Yonghao (18)

Experimental Analysis and Simulation on Heat Dissipation Performance of Floating Heat Sink with Vapor Chamber LIU Fan, LI Shuai, LI Biying (22)

Analysis and Optimization of Heat Dissipation of Battery Charger Considering Solar Radiation MA Chao, ZHOU Yixin, LIU Guopeng, GU Jinfei (26)

Analysis of Shock Loosening of Connecting Screws of an Electronic Equipment LIU Jie, LI Jia, CHANG Xuancang, FENG Zhixin (30)

Thermal Design of a Certain Electronic Equipment LIU Bin, MOU Changjun, WANG Li, ZHENG Yanshuai (34)

Manufacturing Processing Technique

Evaluation Method for Functioning Life of Gold-aluminum Bonding WANG Yuefei, GU Chunyan, CUI Kai, JI Le, HU Yongfang (38)

Technology of ENEPEG on AlN HTCC ZHANG Jingbo, NIU Tong, CUI Kai, HU Yongfang, WANG Congxiang (42)

Study on Friction Stir Welding and Electron Beam Welding of Mg-Li Alloy SONG Kuijing, DONG Zhibo, LI Yang, LI Dongmei, ZHU Shuai, LV Lei, LUO Junrui (46)

Study on Electroless Nickel Boron Process Based on AlN HTCC Substrate WU Jing, WANG Congxiang, NIU Tong, LV Anguo, CUI Kai (51)

High Aspect Ratio TSV Electroplating Filling Technology NIU Tong, LI Hao, CUI Kai, WANG Congxiang (55)

Innovation and Exploration

High Dynamic Control Method of Electromechanical Actuator Based on LADRC ZHANG Qiang, ZHANG Jun, CAI Quanlin, LUO Mingliang, HUANG Jiayi, ZHANG Xiaoche (60)