



目 次

“民用飞机运行支持技术”专刊(执行主编:冯蕴雯、马小骏)

观点

国内民用飞机制造商运营支持能力建设思考 汤小平(1)

综述

以预测性为中心的维修理论和维修方式发展研究 顾新,刘松岑(7)

民用飞机预防性维修及S4000P标准剖析研究 冯蕴雯,陈俊宇,马小骏,腾达,李健(15)

论文

基于TARAM的民用飞机结构类事件的持续运营安全评估 贾宝惠,马语蔚,王卓,王毅强(27)

民用飞机维修手册验证方法研究 张雅杰,曾庆林,王宏朝,沈萍,涂志琦,周寅秋(35)

一种航空发动机运行可靠性评估方法 马红亮,冯蕴雯,刘骞,刘佳奇(42)

基于微观特征定量辨识的加速有效性评估方法 韩雷,廖尚红,于圣杰,费成巍(50)

民用飞机主最低设备清单建议稿项目模糊综合评价方法研究
..... 顾志武,杜倩宜,冯蕴雯,薛小锋(59)

民用飞机主最低设备清单建议稿验证评价标准研究 尹楚雄,顾志武,薛小锋(68)

工程应用

基于支持向量机回归的民用飞机航材消耗预测研究 曾浩然,冯蕴雯,路成,潘维煌(75)

襟翼高升力系统和结构部件飞机维修手册程序验证研究
..... 孙宏丽,王清森,马文帅,王宏朝,张雅杰(80)

基于MBSE的通用质量特性建模分析技术研究 李娇,敖亮,任文明(87)

民用飞机铰链运动机构维修间隔制定研究 冯蕴雯,张家乐,薛小锋,路成,冯成慧(96)

基于改进滑动时间窗口的国产民用飞机APM参数筛选研究 钱宇,王立新,刘瑜(102)

民用飞机航材销售费用分解结构模型研究 李波波,姜婷,王秋男,李一丹(109)

基于S1000D标准的飞机技术出版物结构化方法研究 魏严锋,乔琳君(116)

多语言混合编程的民用飞机航材预测与配置平台 冯蕴雯,严浩,路成,薛小锋(123)

民用航空发动机维修工程分析平台设计与实现 蒋平,王向辉,宋利,龚艳,包丽,余涛(131)

基于隐蔽故障和多失效模式耦合的应急门安全性分析 朱铮铮,徐锦锦,丁鸿飞,韩顿(139)

水陆两栖飞机涉水结构修理级别分析研究 田晶,马小骏,冯蕴雯,胡宇强,李阳(145)

飞机客舱工业设计要素分析和设计方法研究 杨莉,罗啸宇(152)



CONTENTS

Special Issue of Civil Aircraft Operation Support Technology (Executive Editor: FENG Yunwen, MA Xiaojun)

Perspective

- Thoughts on the Construction of Operational Support Capability of Domestic Civil Aircraft Manufacturers
..... TANG Xiaoping (1)

Review

- Research on the Development of Predictive Centered Maintenance Theory and Maintenance Mode
..... GU Xin, LIU Songcen (7)
- Preventive Maintenance of Civil Aircraft and Analysis of S4000P Standard
..... FENG Yunwen, CHEN Junyu, MA Xiaojun, TENG Da, LI Jian (15)

Paper

- Continuous Operational Safety Assessment of Civil Aircraft Structural Events Based on TARAM
..... JIA Baohui, MA Yuwei, WANG Zhuo, WANG Yiqiang (27)
- Research on Verification Method of Civil Aircraft Maintenance Manual
..... ZHANG Yajie, ZENG Qinglin, WANG Hongchao, SHEN Ping, TU Zhiqi, ZHOU Yinqiu (35)
- Evaluation Method of Aeroengine Operation Reliability ... MA Hongliang, FENG Yunwen, LIU Qian, LIU Jiaqi (42)
- Accelerated Effectiveness Evaluation Method Based on Quantitative Identification of Microstructure Characteristics
..... HAN Lei, LIAO Shanghong, YU Shengjie, FEI Chengwei (50)
- Preliminary Master Minimum Equipment List Fuzzy Comprehensive Evaluation Method of Civil Aircraft
..... GU Zhiwu, DU Qianyi, FENG Yunwen, XUE Xiaofeng (59)
- Research on Evaluation Standard of Civil Aircraft Proposal Master Minimum Equipment List Validation
..... YIN Chuxiong, GU Zhiwu, XUE Xiaofeng (68)

Engineering Application

- Forecast Study on Civil Aviation Material Consumption Based on Support Vector Machine Regression
..... ZENG Haoran, FENG Yunwen, LU Cheng, PAN Weihuang (75)
- Study on Program Verification of Aircraft Maintenance Manual for Flaps High-lift System and Structural Components
..... SUN Hongli, WANG Qingmiao, MA Wenshuai, WANG Hongchao, ZHANG Yajie (80)
- Research on Modeling and Analysis Technology of General Quality Characteristics Based on MBSE
..... LI Jiao, AO Liang, REN Wenming (87)
- Research on Maintenance Interval Development of Hinge Mechanism of Civil Aircraft
..... FENG Yunwen, ZHANG Jiale, XUE Xiaofeng, LU Cheng, FENG Chenghui (96)
- Research on Aircraft Performance Monitoring Parameter Selection Based on Improved Window Algorithm
..... QIAN Yu, WANG Lixin, LIU Yu (102)
- Research on Sale Cost Decomposition Structure Model of Civil Aircraft Spare Parts
..... LI Bobo, JIANG Ting, WANG Qiunan, LI Yidan (109)
- Research on Structured Method of Aircraft Technical Publication Based on S1000D Standard
..... WEI Yanfeng, QIAO Linjun (116)
- Civil Aircraft Materials Prediction and Configuration Platform of Multi Language Hybrid Programming
..... FENG Yunwen, YAN Hao, LU Cheng, XUE Xiaofeng (123)
- Design and Implementation of Maintenance Engineering Analysis Platform for Civil Aero-engine
..... JIANG Ping, WANG Xianghui, SONG Li, GONG Yan, BAO Li, YU Tao (131)
- Safety Analysis for the Civil Aircraft Emergency Door Based on Latent Failure and Multi-failure Mode Coupling
..... ZHU Zhengzheng, XU Jinjin, DING Hongfei, HAN Di (139)
- Study on Level of Repair Analysis for Amphibious Aircraft Wading Structure
..... TIAN Jing, MA Xiaojun, FENG Yunwen, HU Yuqiang, LI Yang (145)
- Analysis of Industrial Design Elements and Design Methods of Aircraft Cabin..... YANG Li, LUO Xiaoyu (152)