

## 目 次

### 计 算 方 法

Bayes 方法应用中验前信息可信度的影响分析 .....	刘 琦,武小悦(1)
基于粗糙集理论的终端区飞机排序综合评判 .....	王世锦,王 湛(5)
液氢推进剂预冷却空气涡轮冲压发动机性能模拟 .....	李 成,蔡元虎,屠秋野,等(10)
空投雷弹入水冲击头型特性参数分析 .....	王永虎(14)
圆柱筒轴向载荷下单元尺寸效应数值模拟 .....	孟 卓,孙 秦(18)
改进的小波均匀化方法求解小周期系数抛物型方程 .....	杨建宏(22)
自由飞行下的碰撞风险安全评估研究 .....	卢婷婷,张兆宁,刘计民(25)
基于 Van Leer + AUSM 混合格式求解三维 N-S 方程 .....	王学德,谭俊杰,唐振华,等(30)
航线网络中基于最小费用流的航线选择问题 .....	张陆彬,王莉莉,张兆宁(35)
网格自适应策略在高升力构型计算中的应用 .....	谭伟伟(38)
飞机起飞滑跑发动机推力数值确定方法 .....	宋花玉(43)
基于 DEA 模型的民用机场运行效率分析 .....	方学东,郝 斌(47)
基于粗糙集理论的振动信号数据挖掘研究 .....	薛庆增,李 冬,孙 涛,等(50)
航空发动机故障诊断主因子选取相似系数法 .....	陈玉春,黄兴鲁,孙祥逢,等(55)
一种三维结构网格并行算法 .....	韩志熔,陆志良,郭同庆,等(58)
钝后缘翼型的后缘隔板减阻研究 .....	宋 科,郝礼书,乔志德(62)
一种混合粒子群优化算法在翼型设计中的应用 .....	李 丁,夏 露(66)
基于 DES 方法的三角翼激波-涡干扰流场数值模拟 .....	焦 瑾,杨 永,李喜乐(72)
小型电动无人机动力系统设计和优化 .....	梁 冰,王和平,袁昌盛(78)
二维空腔超声速流动特性及形状影响数值研究 .....	刘 琼,桑为民,雷紫薇(81)
翼吊发动机短舱对增升装置气动特性影响研究 .....	邱亚松,白俊强,黄 琳,等(86)
上单翼布局飞机翼根整流罩设计分析 .....	王 丹,白俊强,孙智伟,等(90)
不同外形建模方法对机翼气动特性的影响 .....	司 源,王正平,张 礼(95)
Clare 层合板的抗鸟撞分析 .....	陈卫锋,万小鹏,赵美英(99)

### 计 算 机 软 件

飞机舱温数据处理方法的考核研究 .....	王富生,刘 洋,霍世慧,等(104)
-----------------------	--------------------

### 计 算 机 应 用

高频平面变压器技术研究 .....	孟颖悟,孙立萌,田育新,等(107)
基于文件的 MIL-STD-1553B 总线传输研究 .....	杨建新,杨永存(110)
基于 PCI 接口的高速 A/D 采集电路设计 .....	解文涛(113)
基于 Simulink 的组合导航系统的 FDIR 技术仿真分析 .....	丁宏升,李富荣,于建立(117)

### 计 算 机 网 络

体系结构驱动的 AFDX 网络内容数据库研究 .....	倪 琛,李 峭,何 锋,等(120)
基于 MDA 的工作流建模技术的研究与实现 .....	张 英,王丽芳,蒋泽军(123)

## CONTENTS

### Computing Method

Influence Analysis of Prior Reliability in Bayes Method Application .....	LIU Qi, WU Xiao-yue (1)
Research on Comprehensive Evaluation for Aircraft Sequencing Problem in TMA According to RS Theory .....	WANG Shi-jin, WANG Zhan (5)
Study on Performance Simulation of Liquid Hydrogen Propellant Air-Turbo-Ramjet with Pre-cooler .....	LI Cheng, CAI Yuan-hu, TU Qiu-ye, et al (10)
Nose Performance Description Coefficient of Airborne Torpedo and Deep-mine during Water-entry Impact .....	WANG Yong-hu (14)
Effects of Element Size on Numerical Model of Cylindrical Shells under Axial Impact .....	MENG Zhuo, SUN Qin (18)
A Improved Wavelet-based Numerical Homogenization Method for the Parabolic Equations with little Periodic Coefficient .....	YANG Jian-hong (22)
Study on Safety Assessment of Free Flight Collision Risk .....	LU Ting-ting, ZHANG Zhao-ning, LIU Ji-min (25)
Numerical Simulation of N-S Equations Based on Van Leer + AUSM Scheme .....	WANG Xue-de, TAN Jun-jie, TANG Zhen-hua, et al (30)
Minimum Cost Flow-based Route Selection in Airline-network .....	ZHANG Lu-bin, WANG Li-li, ZHANG Zhao-nin (35)
Application of New Grid Adaptation Strategy on High Lift Configuration .....	TAN Wei-wei (38)
A Numerical Value Confirmation Method of Engine Thrust in Aircraft Take-off Running .....	SONG Hua-yu (43)
Analysis of Civil Airport Operating Efficiency Based on DEA Model .....	FANG Xue-dong, HAO Bin (47)
Research on Data Mining of Vibratory Signal Based on Rough Set Theory .....	XUE Qing-zeng, LI Dong, SUN Tao, et al (50)
Similar Coefficients Method of Primary Factors Selection for Aero-engine Fault Diagnosis .....	CHEN Yu-chun, HUANG Xing-lu, SUN Xiang-feng, TU Qiu-ye (55)
A Parallel Algorithm for Three-dimensional Structured Grid .....	HAN Zhi-rong, LU Zhi-liang, GUO Tong-qing, et al (58)
Blunt Trailing-Edge Airfoils Drag Reduction with Splitter .....	SONG Ke, HAO Li-shu, QIAO Zhi-de (62)
Application of a Hybrid Particle Swarm Optimization to Airfoil Design .....	LI Ding, XIA Lu (66)
Numerical Simulation of Transonic Shock-vortex Interaction Flow on Delta Wing Using DES .....	JIAO Jin, YANG Yong, LI Xi-le (72)
Design and Optimization of Power System for Electric Small Unmanned Aerial Vehicles .....	LIANG Bing, WANG He-ping, YUAN Chang-sheng (78)
Numerical Simulation of Flow Characteristics and Cavity Configuration Impact on the Supersonic Cavity Flow .....	LIU Qiong, SANG Wei-min, LEI Xi-wei (81)
Study on Influence of Wing-mounted Engine Nacelle on Aerodynamic Performance of High-Lift System .....	QIU Ya-song, BAI Jun-qiang, HUANG Lin, et al (86)
Cowling Design for Wing Root Regions of the Airplane with High Wing Configuration .....	WANG Dan, BAI Jun-qiang, SUN Zhi-wei, et al (90)
Effect of Different Shape Modeling Methods on the Aerodynamic Characteristics of Aircraft Wing .....	SI Yuan, WANG Zheng-ping, ZHANG Li (95)
Analysis of Anti-bird Strike for Glare Laminates .....	CHEN Wei-feng, WAN Xiao-peng, ZHAO Mei-ying (99)

### Computer Software

Checking Research on Data Processing Method of Aircraft Environment Temperature .....	WANG Fu-sheng, LIU Yang, HUO Shi-hui, et al (104)
---	---

### Computer Application

Study on High-frequency Planar Transformer Technology .....	MENG Ying-wu, SUN Li-meng, TIAN Yu-xin, et al (107)
Study on File-based Transfer of MIL-STD-1553B Data Bus .....	YANG Jian-xin, YANG Yong-cun (110)
Design of a High Speed Analog-to-digital Sampling Circuit Based on PCI .....	XIE Wen-tao (113)
Simulation and Analysis of FDIR Technology for Integrated Navigation System Based on Simulink .....	DING Hong-sheng, LI Fu-rong, YU Jian-li (117)

### Computer Network

Research on Architecture-driven Content Database of AFDX Network .....	NI Chen, LI Qiao, HE Feng, et al (120)
Research and Implementation on Workflow Modeling Technique Based on MDA .....	ZHANG Ying, WANG Li-fang, JIANG Ze-jun (123)