

# 航空发动机

双月刊

2010年第36卷第4期

(总第143期)

2010年8月出版

## 目次

### 设计技术

- 带肋和出流孔通道换热研究.....郭涛,朱惠人,苏福彬,许都纯(1)
- 推力矢量喷管控制系统的数字仿真研究.....刘文兴(6)
- 温度分布对自由盘层流换热的影响.....吕品,王成明,赵熙,徐国强(8)
- 燃气轮机涡轮导向叶片涡流交错肋冷却技术研究.....李俊山(12)
- 多点喷射模型燃烧室性能 CFD 分析.....张振奎,钟华贵(17)
- 部件性能变化对大涵道比发动机台架性能的影响.....张生,李长晖,任文成,李泳凡(22)
- 涡轴发动机性能退化数学建模研究.....时瑞军,周剑波,张秋贵,皮星(26)
- 燕尾榫连接结构 ANSYS 工作平台开发.....吴艳华,郝艳华(29)

### 试验成果

- 基于支持向量机和信息融合的整机振动状态监视与诊断.....韩磊,洪杰,苗学问(32)
- 平面叶栅栅后 4 轴伺服位移控制系统开发与应用.....王东,梅繁,吴法勇,刘晓鹏(37)

### 材料与工艺

- 海洋环境下航改燃气轮机腐蚀防护与控制.....由宝财,滕佰秋,邢丕臣,王志宏(41)

### 信息研究

- 舰载作战飞机发动机的研制道路.....梁春华(45)
- WR-21 舰船用燃气轮机的设计特点.....孙爱军,肖娜新,马力(49)
- 质量控制方法细化在航空发动机设计中的应用.....葛雪利,高东武,王光耀(53)
- CFM56 系列发动机部件技术综述.....付仁合,王伟(57)

### 动态信息

- 欧洲航空安全局对哈尔滨飞机制造集团公司 Z15 直升机项目生产组织批准进行审核.....黄卫兵(61)
- RB211-H63 燃气轮机研制最新进展.....索德军(62)
- 封二、三 本刊编辑委员会成员简介(九)

刊名题字:林左鸣

# AEROENGINE

Vol.36 No.4 Aug. 2010(Total No.143)

Bimonthly

## Contents

### Design Technology

- Heat Transfer Investigation on the Channels with Rib Turbulators and Bleed Holes  
..... GUO Tao, ZHU Hui-ren, SU Fu-bin, XU Du-chun (1)
- Digital Simulation Research of Control System for Thrust Vectoring Nozzle  
..... LIU Wen-xing (6)
- Effect of Temperature Distribution on Laminar Heat Transfer for Free Disk  
..... LV Pin, WANG Cheng-ming, ZHAO Xi, XU Guo-qiang(8)
- Cooling Efficiency of Turbine Guide Vane with Vortex Interlaced Rib for Gas Turbine  
..... LI Jun-shan (12)
- CFD Analysis of Performance for the Model Multipoint Injection Combustor  
.....ZHANG Zhen-kui, Zhong Hua-gui (17)
- Effect of Component Performance Variation on the Performance of High Bypass Ratio Engine on Testbed  
.....ZHANG Sheng, LI Chang-hui, REN Wen-cheng, LI Yong-fan (22)
- Mathematical Model Study on Performance Deterioration of Turboshaft Engine  
.....SHI Rui-jun, ZHOU Jian-bo, ZHANG Qiu-gui, PI Xing(26)
- Development of ANSYS Platform for the Dovetail Joint Structure  
.....WU Yan-hua,HAO Yan-hua(29)

### Experimental Accomplishment

- The Monitoring and Diagnosis of Aeroengine Vibration Based on the Support Vector Machine and Information Fusion  
.....HAN Lei, HONG Jie, MIAO Xue-wen(32)
- Development and Application of the Four-axis Servo Displacement Control System for the Plane Cascade Downstream  
.....WANG Dong, MEI Fan, WU Fa-yong, LIU Xiao-peng(37)

### Material and Technology

- The Corrosion Protection and Control of Marine Aero-derivative Gas Turbine  
..... YOU Bao-cai, TENG Bai-qiu, XING Pi-chen, WANG Zhi-hong(41)

### Information Research

- Development of Carrier Fighter/Striker Engine ..... LIANG Chun-hua (45)
- Design Characteristics of WR-21 Marine Gas turbine ..... SUN Ai-jun, XIAO Na-xin, MA Li (49)
- Application of the Elaboration of Quality Control Method in Aeroengine Design  
.....GE Xue-li, GAO Dong-wu, WANG Guang-yao(53)
- Review of the Component Technologies for CFM56 Series Turbofan Engine  
.....FU Ren-he, WANG Wei(57)