

目次

结构、强度、振动

- 单晶涡轮叶片典型任务循环蠕变分析 石多奇, 张雨曼, 隋天校, 杨晓光 (20210702)
- 带横向喷流效应飞行器的虚拟飞行天平测力装置研制与应用
..... 苗磊, 赵忠良, 李浩, 徐志伟, 周米文 (20230384)
- 支承机匣磨抛参数建模与稳健优化研究 曾爱, 黄飞, 王玉泉, 杨滨涛, 张玉 (20220678)
- 基于磨粒分析的球轴承外圈剥落扩展特性研究
..... 杨景来, 卜嘉利, 佟文伟, 刘东旭, 郝延龙, 何山 (20230666)
- 不同油槽结构挤压油膜阻尼器动力学特性试验
..... 黄延忠, 张广辉, 马会防, 陈亚龙, 龚文杰 (20210705)
- 氮化铝陶瓷燃气舵仿真与试验 白焯炯, 石仲仑, 薛海峰, 蔡红明 (20210698)
- 基于三维随机细观模型的 SiCp/Al 复合材料力学性能分析
..... 田学亮, 徐颖, 王学民, 崔海涛, 蒋鹏琛, 张宏建, 韩琦男 (20210687)
- 高浮起量空气静压止推轴承气膜流动特性分析
..... 辛晓承, 龙威, 高浩, 王萍, 刘云龙 (20220415)
- 直升机超临界尾轴限幅减振器安装位置研究 宋立瑶, 王旦, 曹鹏, 陈柏, 朱如鹏 (20220409)
- 管式减涡器阻尼结构减振特性及设计方法 牛南轲, 漆文凯, 许正华 (20220469)
- 数字孪生机翼损伤模式快速识别与监测方法
..... 王子一, 栗华, 龚春林, 蔡艳芳, 丁轩鹤, 杨予成 (20220395)
- 基于改进 YOLOv8 的航空铝合金焊缝缺陷检测方法
..... 苏志威, 黄子涵, 邱发生, 郭朝阳, 殷晓芳, 邬冠华 (20230414)

燃烧、传热、传质

- 基于双旋流全环燃烧室的出口温度分布试验研究
..... 门玉宾, 郑龙席, 柴昕, 张焱, 张宝华, 马宏宇 (20230423)
- 基于 NSGA-II 算法的小弯管冲击冷却多目标优化 赵鸿华, 宋双文, 王志凯 (20210688)
- 基于油冷叶片的涡轮叶间燃烧性能研究 卿黎明, 朱剑琴, 程泽源 (20220388)

- 带轴向通流冷却的动压气体轴承静承载力和气动热多参数影响分析
 高齐宏, 孙文静, 王宇婕, 张靖周, 张镜洋, 罗欣洋 (20220393)
- 分级旋流燃烧室流动及碳烟排放特性研究 胡 阁, 李建中, 张靖周, 金 武 (20210695)
- 收缩扩张型混合管结构参数对圆排波瓣引射器性能影响
 肖长庚, 刘友宏, 张 寒, 淳 杰, 黄 宇 (20220404)

气动热力学与总体设计

- 基于 DMD 的双喉道矢量喷管的流场重构与分析 王建明, 刘晓东, 夏瑄泽, 王成军 (20210679)
- 凹槽叶尖尾缘设计对高压涡轮气动性能的影响 蒋红梅, 张子扬, 卢少鹏 (20230512)
- 一型逆时针主旋翼的双发直升机进气流场数值仿真分析 杨 柳, 刘 雨 (20210697)
- 多旋翼无人机串联混合动力系统能量管理仿真 徐 楷, 王步宇, 帅石金 (20220385)

动力传输

- 考虑设计参数的角接触球轴承动态精度演变规律
 季 晔, 王东峰, 薛玉君, 郑昊天, 韩 涛 (20220389)
- 基于 ease-off 的弧齿锥齿轮齿面高阶接触分析方法 陈 鹏, 王三民, 李 飞 (20220400)
- 基于频域特征的航空轴承智能诊断 李宏宇, 苏 越, 陈 康, 王俨凯 (20220405)

叶轮机械

- 缝式机匣处理对对转压气机最先失速级的影响 王 磊, 高丽敏, 茅晓晨, 郭彦超 (20220392)
- 齿形结构对迷宫密封泄漏与动力特性影响 叶强生, 张万福, 周庆辉, 李 春 (20220460)

火箭发动机

- 二次燃烧对多喷管运载火箭底部热环境影响研究 周志坛, 李怡庆, 江 平, 包轶颖 (20210694)

Contents

Structure, Strength and Vibration

- Creep analysis of single crystal turbine blade under typical mission cycle
..... SHI Duoqi, ZHANG Yuman, SUI Tianxiao, YANG Xiaoguang (20210702)
- Development and application of virtual flight balance measurement device for aircraft with lateral jet
..... MIAO Lei, ZHAO Zhongliang, LI Hao, XU Zhiwei, ZHOU Miwen (20230384)
- Modeling and robust optimization of grinding and polishing parameters of support casing
..... ZENG Ai, HUANG Fei, WANG Yuquan, YANG Bintao, ZHANG Yu (20220678)
- Research on peeling propagation characteristics of outer ring of ball bearings based on wear particles
analysis YANG Jinglai, BU Jiali,
TONG Wenwei, LIU Dongxu, HAO Yanlong, HE Shan (20230666)
- Experiment on dynamic characteristics of squeeze film damper with different groove
..... HUANG Yanzhong, ZHANG Guanghui, MA Huifang, CHEN Yalong, GONG Wenjie (20210705)
- Numerical simulation and test of AlN ceramic jet vane
..... BAI Haotong, SHI Zhonglun, XUE Haifeng, CAI Hongming (20210698)
- Analysis of mechanical properties of SiCp/Al composites based on three-dimensional random
meso-model TIAN Xueliang, XU Ying,
WANG Xuemin, CUI Haitao, JIANG Pengchen, ZHANG Hongjian, HAN Qinan (20210687)
- Analysis on film flow characteristics of high lifting air static thrust bearings
..... XIN Xiaocheng, LONG Wei, GAO Hao, WANG Ping, LIU Yunlong (20220415)
- Study on installation location of dry friction damper for helicopter supercritical tail drive shaft
..... SONG Liyao, WANG Dan, CAO Peng, CHEN Bai, ZHU Rupeng (20220409)
- Damping characteristics and design method of tubular vortex reducer damper
..... NIU Nanke, QI Wenkai, XU Zhenghua (20220469)
- Rapid identification and monitoring of digital twin wings damage patterns WANG Ziyi, SU Hua,
GONG Chunlin, CAI Yanfang, DING Xuanhe, YANG Yucheng (20220395)
- Weld defect detection of aviation aluminum alloy based on improved YOLOv8
..... SU Zhiwei, HUANG Zihan,
QIU Fasheng, GUO Chaoyang, YIN Xiaofang, WU Guanhua (20230414)

Combustion, Heat and Mass Transfer

- Experimental study on the outlet temperature distribution of double swirler combustor
..... MEN Yubin, ZHENG Longxi,
CHAI Xin, ZHANG Yi, ZHANG Baohua, MA Hongyu (20230423)
- Multi-objective optimization of impingement cooling of concave wall based on NSGA-II algorithm
..... ZHAO Honghua, SONG Shuangwen, WANG Zhikai (20210688)

- Investigation on turbine inter-vane combustion performance based on fuel cooled vane
 QING Liming, ZHU Jianqin, CHENG Zeyuan (20220388)
- Multi-parameters analysis on static bearing load and aerodynamic heat of hydrodynamic gas bearing
 with axial throughflow cooling GAO Qihong, SUN Wenjing,
 WANG Yujie, ZHANG Jingzhou, ZHANG Jingyang, LUO Xinyang (20220393)
- Flow field and soot emission characteristics of staged swirling combustor
 HU Ge, LI Jianzhong, ZHANG Jingzhou, JIN Wu (20210695)
- Effect of converging diverging mixing duct geometric parameters on performance of circularly lobed
 nozzle ejector XIAO Changgeng, LIU Youhong, ZHANG Han, CHUN Jie, HUANG Yu (20220404)

Aerothermodynamics and Aeroengine Design

- Flow field reconstruction and characteristic analysis of dual-throat control vector nozzle based on
 dynamic mode decomposition WANG Jianming, LIU Xiaodong,
 XIA Xuanze, WANG Chengjun (20210679)
- Influence of trailing edge designs of squealer tips on aerodynamic performance of high-pressure turbine
 JIANG Hongmei, ZHANG Ziyang, LU Shaopeng (20230512)
- Numerical simulation analysis of inlet flow field of anti-clockwise main rotor helicopter with twin
 engine YANG Liu, LIU Yu (20210697)
- Numerical investigation on the energy management strategies of a series hybrid unmanned multirotor
 aerial vehicle XU Kai, WANG Buyu, SHUAI Shijin (20220385)

Power Transimission

- Dynamic accuracy's evolutionary regularity of angular contact ball bearing based on design parameters
 JI Ye, WANG Dongfeng, XUE Yujun, ZHENG Haotian, HAN Tao (20220389)
- High-order contact analysis method of spiral bevel gear tooth surface based on ease-off
 CHEN Peng, WANG Sanmin, LI Fei (20220400)
- Intelligent diagnosis of aviation bearings based on frequency domain features
 LI Hongyu, SU Yue, CHEN Kang, WANG Yankai (20220405)

Turbomachinery

- Effect of slot casing treatment on first stall stage of counter-rotating compressor
 WANG Lei, GAO Limin, MAO Xiaochen, GUO Yanchao (20220392)
- Effect of tooth profile on the leakage and dynamic characteristics of labyrinth seals
 YE Qiangsheng, ZHANG Wanfu, ZHOU Qinghui, LI Chun (20220460)

Rocket Engine

- Effect of secondary combustion on the multi-nozzle rocket base thermal environment
 ZHOU Zhitan, LI Yiqing, JIANG Ping, BAO Yiying (20210694)