

目 次

• 研究进展 •

- 航空发动机中冰晶结冰的研究进展 沈 浩, 韩冰冰, 张丽芬 (1)

• 基础研究及应用 •

- 一种小长高比组合发动机喷管气动设计及性能分析 葛文兴, 桂 丰, 袁化成, 何墨凡, 郭荣伟 (8)

- 曲外锥乘波前体进气道流量测量及实验与仿真对比研究 贺旭照, 周 正, 张俊韬, 贺元元, 吴颖川 (18)

- 捆绑式运载火箭跨声速气动阻尼特性试验研究 季 辰, 吴彦森, 侯英昱, 朱 剑, 刘文滨, 白 葵, 刘子强 (24)

- 一种翼身融合布局飞行器的偏离特性分析 付军泉, 史志伟, 陈 杰, 周梦贝, 吴大卫, 潘立军 (32)

- 具有阻力风杯结构的垂直轴风力机启动特性试验研究 白悦荻, 佟国强, 姜 禹, 李 岩, 冯 放, 赵 斌 (38)

- T型尾翼飞机抖振试飞研究 高文涛, 张武林, 寇宝智 (45)

- 管道效应对进气道试验湍流度测量的影响研究 徐彬彬, 巫朝君, 王 学 (52)

- 地铁车站屏蔽门风压特性试验研究 曾令伟, 易富民, 王汉封, 黎良桥 (59)

- 基于 TSP 方法的自然层流机翼转捩位置测量 武 宁, 唐 鑫, 段卓毅, 张彦军 (66)

• 实验设备及方法 •

- 连续式跨声速风洞压力损失计算研究 李庆利, 孟凡民, 李兴龙, 张 刀, 崔晓春 (71)

- 应用于激波风洞的半导体应变天平技术研究 黄 军, 邱华诚, 刘施然, 赵荣娟, 吕治国, 杨彦广 (79)

- 原子层热电堆热流传感器研制及其性能测试 杨 凯, 朱 涛, 王 雄, 陶伯万, 朱新新, 王辉, 杨庆涛 (86)

• 信息与简讯 •

- 我国首座路德维希管高超声速静音风洞形成试验能力 杨 波 (91)

执行编辑 李金勇 英文审核 胡华雨

JOURNAL OF EXPERIMENTS IN FLUID MECHANICS

China Aerodynamics Research Society

Dec., 2020

Vol.34 No.6 (Sum 158)

CONTENTS

Review

Research progress of the ice crystal icing in aero-engine

..... SHEN Hao , HAN Bingbing , ZHANG Lifen (1)

Fundamental Research and Application

Aerodynamic design and numerical simulation of combined cycle nozzle with small length to height ratio

..... GE Wenxing , GUI Feng , YUAN Huacheng , HE Mofan , GUO Rongwei (8)

Mass flux measurement and comparison study of simulation and experiment on curved cone waverider

forebody inlet HE Xuzhao , ZHOU Zheng , ZHANG Juntao , HE Yuanyuan , WU Yingchuan (18)

Experimental study of aerodynamic damping characteristics of a launch vehicle with boosters in transonic flow

..... JI Chen , WU Yansen , HOU Yingyu , ZHU Jian , LIU Wenbin , BAI Kui , LIU Ziqiang (24)

Departure characteristics of blended-wing-body aircraft

..... FU Junquan , SHI Zhiwei , CHEN Jie , ZHOU Mengbei , WU Dawei , PAN Lijun (32)

Experimental study on starting characteristics of vertical axis wind turbine with resistance wind-cup structure

..... BAI Yuedi , TONG Guoqiang , JIANG Yu , LI Yan , FENG Fang , ZHAO Bin (38)

Study on buffet flight test of aircraft with T-tail GAO Wentao , ZHANG Wulin , KOU Baozhi (45)

Research on the effect of tubing on turbulence in inlet wind tunnel test

..... XU Binbin , WU Chaojun , WANG Xue (52)

Experimental investigation on the wind pressure on the platform screen door of a subway station

..... ZENG Lingwei , YI Fumin , WANG Hanfeng , Li Liangqiao (59)

Transition measurement for the nature-laminar wing based on TSP technique

..... WU Ning , TANG Xin , DUAN Zhuoyi , ZHANG Yanjun (66)

Experimental Equipment and Method

Research on the calculation of pressure loss in continuous transonic wind tunnel

..... LI Qingli , MENG Fanmin , LI Xinglong , ZHANG Ren , CUI Xiaochun (71)

Research on semiconductor strain gage balance technology applied in shock tunnel

..... HUANG Jun , QIU Huacheng , LIU Shiran , ZHAO Rongjuan ,
LYU Zhiguo , YANG Yanguang (79)

Self-innovated ALTP heat-flux sensor and its performance tests

..... YANG Kai , ZHU Tao , WANG Xiong , TAO Bowan ,
ZHU Xinxin , WANG Hui , YANG Qingtao (86)

Information and Newsletter

China's first hypersonic quiet tunnel driven by Ludwig tube in CARDC is capable of carrying out experiments

..... YANG Bo (91)