



ISSN 1001-5965  
CODEN BHHDE8

# 北京航空航天大学 学报

JOURNAL OF BEIJING UNIVERSITY OF  
AERONAUTICS AND ASTRONAUTICS



**2019-02**

**Vol.45 No.2**

目 次

具有初始热变形的转子系统振动响应分析..... 马艳红, 刘海舟, 邓旺群, 杨海, 洪杰 (227)

小视场星敏感器量测延时滤波算法 ..... 钱华明, 王迪, 吴永慧, 黄智开 (234)

航天刚-弹-液耦合系统的弹-液耦合研究 ..... 梁立孚, 郭庆勇 (243)

高速运载器燃油热管理系统优化..... 庞丽萍, 邹凌宇, 阿嵘, 杨晓东, 范俊 (252)

基于混沌粒子群优化的北斗/GPS 组合导航选星算法.....  
..... 王尔申, 贾超颖, 曲萍萍, 黄煜峰, 庞涛, 别玉霞, 姜毅 (259)

航空发动机转子结构布局优化设计方法 ..... 李超, 金福艺, 张卫浩 (266)

一种考虑过滤的短纤维增强复合材料 RVE 建模方法 ..... 刘丰睿, 骞睿, 赵丽滨, 张建宇 (277)

一种新的矩独立重要性测度分析方法及高效算法..... 巩祥瑞, 吕震宙, 孙天宇, 张雷雷, 封雷 (283)

弹性高速飞行器的状态/参数滚动时域估计 ..... 陈尔康, 荆武兴, 高长生 (291)

数字锁相解调器的优化设计..... 李勇, 刘泽, 赵鹏飞, 霍继伟, 林阳 (299)

基于改进型 Retinex 算法的雾天图像增强技术 ..... 张驰, 谭南林, 李响, 李国正, 苏树强 (309)

触地关机模式下的着陆器软着陆稳定性研究..... 董洋, 王春洁, 吴宏宇, 丁宗茂, 满剑锋 (317)

蜂群无人机自组网多优先级自适应退避算法 ..... 刘炜伦, 张衡阳, 郑博, 高维廷 (325)

一种图像缩放算法的 SoC 协同加速设计方法..... 王鹏, 曹云峰, 许蕾, 丁萌, 张洲宇, 曲金秋 (333)

基于地形匹配的直升机低空飞行前视告警方法 ..... 张硕俨, 陆洋 (340)

未知环境下无人机集群协同区域搜索算法 ..... 侯岳奇, 梁晓龙, 何吕龙, 刘流 (347)

基于空间两点的视觉自主着陆导引算法设计 ..... 魏祥灰, 唐超颖, 王彪 (357)

一种新的非高斯随机振动信号的模拟方法 ..... 夏静, 袁宏杰, 徐如远 (366)

基于改进的动态 Kriging 模型的结构可靠度算法 ..... 魏娟, 张建国, 邱涛 (373)

芯片互联结构断裂失效的试验研究与统计分析..... 陈垚君, 景博, 胡家兴, 盛增津, 张钰林 (381)

电磁航天器编队悬停鲁棒协同控制方法 ..... 张亚博, 师鹏, 张皓, 赵育善 (388)

基于半无码的 P (Y) 码自相关 GNSS-R 海面测高方法 ..... 樊梦文, 张波, 王峰 (398)

基于缓解 HoL 堵塞的单组播混合调度算法 ..... 袁龙, 熊庆旭, 萧翰 (405)

基于 AVSIMM 算法的高超声速再入滑翔目标跟踪 ..... 肖楚晗, 李炯, 雷虎民, 王华吉 (413)

考虑临近车道行人对交通流影响的改进跟驰模型 .....  
..... 李宏刚, 高哈尔·达吾力, 王帅, 余贵珍, 王朋成 (422)

期刊基本参数: CN 11-2625/V \* 1956 \* m \* A4 \* 202 \* zh \* P \* ¥50.00 \* 900 \* 25 \* 2019-02

CONTENTS

Vibration response analysis of rotor system with initial thermal deformation  
..... MA Yanhong, LIU Haizhou, DENG Wangqun, YANG Hai, HONG Jie (227)

Filtering algorithm of NFOV star sensor measurement delay  
..... QIAN Huaming, WANG Di, WU Yonghui, HUANG Zhikai (234)

Elastic-liquid coupling in aerospace rigid-elastic-liquid coupling system  
..... LIANG Lifu, GUO Qingyong (243)

Optimization of fuel heat management system for high-speed aircraft  
..... PANG Liping, ZOU Lingyu, A Rong, YANG Xiaodong, FAN Jun (252)

BDS/GPS integrated navigation satellite selection algorithm based on chaos particle swarm optimization  
..... WANG Ershen, JIA Chaoying, QU Pingping, HUANG Yufeng, PANG Tao, BIE Yuxia, Jiang Yi (259)

Optimized design method of aero-engine rotor structure layout  
..... LI Chao, JIN Fuyi, ZHANG Weihao (266)

A filter based modeling method of RVE for short fiber reinforced composite  
..... LIU Fengrui, PIAN Rong, ZHAO Libin, ZHANG Jianyu (277)

A new moment-independent importance measure analysis method and its efficient algorithm  
..... GONG Xiangrui, LYU Zhenzhou, SUN Tianyu, ZHANG Leilei, FENG Lei (283)

State/parameter moving horizon estimation for elastic hypersonic vehicles  
..... CHEN Erkang, JING Wuxing, GAO Changsheng (291)

Optimal design for digital phase-locked demodulator  
..... LI Yong, LIU Ze, ZHAO Pengfei, HUO Jiwei, LIN Yang (299)

Foggy image enhancement technology based on improved Retinex algorithm  
..... ZHANG Chi, TAN Nanlin, LI Xiang, LI Guozheng, SU Shuqiang (309)

Soft landing stability of lander in mode of shutdown at touchdown  
..... DONG Yang, WANG Chunjie, WU Hongyu, DING Zongmao, MAN Jianfeng (317)

An adaptive backoff algorithm for FANETs based on multiple priority  
..... LIU Weilun, ZHANG Hengyang, ZHENG Bo, GAO Weiting (325)

SoC collaborative acceleration design method for image scaling algorithm  
..... WANG Peng, CAO Yunfeng, XU Lei, DING Meng, ZHANG Zhouyu, QU Jinqiu (333)

Helicopter forward looking alert method for low-altitude flight based on terrain matching  
..... ZHANG Shuoyan, LU Yang (340)

Cooperative area search algorithm for UAV swarm in unknown environment  
..... HOU Yueqi, LIANG Xiaolong, HE Lyulong, LIU Liu (347)

Visual guidance algorithm design for autonomous landing based on two points in space  
..... WEI Xianghui, TANG Chaoying, WANG Biao (357)

A new simulation method of non-Gaussian random vibration signal  
..... XIA Jing, YUAN Hongjie, XU Ruyuan (366)

Structural reliability algorithm based on improved dynamic Kriging model  
..... WEI Juan, ZHANG Jianguo, QIU Tao (373)

Experimental research and statistical analysis of fracture failure for interconnected structures in electronic chips  
..... CHEN Yaojun, JING Bo, HU Jiaying, SHENG Zengjin, ZHANG Yulin (381)

A robust coordinated control method for hovering of electromagnetic spacecraft formation  
..... ZHANG Yabo, SHI Peng, ZHANG Hao, ZHAO Yushan (388)

Semi-codeless based P (Y) code autocorrelation GNSS-R sea surface altimetry method  
..... FAN Mengwen, ZHANG Bo, WANG Feng (398)

Packet scheduling algorithm for integrated unicast and multicast traffic based on reducing HoL blocking  
..... YUAN Long, XIONG Qingxu, XIAO Han (405)

Hypersonic reentry gliding target tracking based on AVSIMM algorithm  
..... XIAO Chuhan, LI Jiong, LEI Humin, WANG Huaji (413)

An improved car-following model considering effect of pedestrians of adjacent lane on traffic flow  
..... 万方数据 LI Honggang, Gaoher · DAWULI, WANG Shuai, YU Guizhen, WANG Pengcheng (422)