



ISSN 1001-5965
CODEN BHHDE8

北京航空航天大学 学报

JOURNAL OF BEIJING UNIVERSITY OF
AERONAUTICS AND ASTRONAUTICS



2013-05

Vol.39 No.5

北京航空航天大学学报

第 39 卷 第 5 期 (总第 243 期) 2013 年 5 月

目次

高超声速飞行器自适应 BTT 末制导律	李惠峰	葛亚杰	李昭莹 (569)
太阳中纬度探测共振借力轨道设计	李小玉	郑建华 (574)	
空中最小操纵速度的人机闭环数学仿真计算	贾重任	黄成涛	王立新 (580)
修正的动力盘模型与三维模拟螺旋桨滑流比较	段中喆	刘沛清	屈秋林 刘振臣 (585)
DES 方法对返回舱气动热环境数值模拟	刘佳	阎超	赵瑞 蒋海军 (590)
大型飞机起落架收放控制系统仿真	屠毅	肖翔	李楠 (595)
空舰导弹纯方位攻击目标指示优化方法	孙涛	谢晓方	唐江 薛文国 (600)
基于弱耦合的翼伞气动变形数值模拟	张春	曹义华 (605)	
基于聚类 PSO 算法的舰载机舰面多路径动态规划	韩维	司维超	丁大春 宋岩 (610)
基于非正交干涉矩阵的飞机装配序列规划方法	孙占磊	赵罡	韩鹏飞 郭春英 (615)
民机飞行载荷谱编制方法	刘晓明	万少杰	熊峻江 李强 (621)
跨音速风扇全环叶片颤振特性的流固耦合分析	郑赞	杨慧 (626)	
用 GAO-YONG 湍流模式对分离流动的数值模拟	高琳	高歌	江立军 (631)
基于光谱特征的自适应子空间波段选择方法	徐秋	李娜	赵慧洁 李旭东 (635)
一种爬壁机器人的动力学建模	岳荣刚	王少萍 (640)	
基于四元数平方根容积卡尔曼滤波的姿态估计	钱华明	黄蔚	葛磊 张广拓 (645)
工作流模型时间与费用性能评估算法	潘军	刘丽 (650)	
正态逼近与基于覆盖宽度的 EM 估计	韩立岩	蔡明生	尹力博 (655)
基于物理光学假设的导体表面电流密度误差分析	姬金祖	马云鹏	黄沛霖 张中建 (660)
任意曲面上射线的寻迹方法	陈志贤	苏东林	刘焱 方向 (665)
金合金锡铅软钎焊接头脆性行为	尹娜	曲文卿	杨淑娟 李睿 (670)
Al-Li 合金搅拌摩擦焊搭接接头的疲劳性能	张丹丹	曲文卿	杨模聪 柴鹏 (674)
包含引力辅助变轨的三体 Lambert 问题求解算法	罗钦钦	韩潮 (679)	
电离辐射对部分耗尽 SOI 器件关态电流的影响	恩云飞	刘远	何玉娟 (683)
复合材料构件 R 区的超声相控阵检测实验	张冬梅	于光	周正干 徐娜 (688)
基于连续性条件的体 PIV 后处理技术	高琪	王成跃	王洪平 王晋军 (693)
基于神经网络的电磁干扰的预测	杨天鹏	马齐爽	谢清明 (697)
基于多机理竞争退化的导弹贮存可靠性分析	罗湘勇	黄小凯 (701)	
时频域并行捕获算法	占巍	张晓林	李娟 (706)

期刊基本参数: CN11-2625/V * 1956 * m * A4 * 142 * zh * P * ¥ 20.00 * 1500 * 29 * 2013-05

(本期执行编辑 赵海容)

JOURNAL OF BEIJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

Vol. 39 No. 5 (Sum 243) May 2013

CONTENTS

Adaptive BTT terminal guidance law for hypervelocity vehicle	Li Huifeng Ge Yajie Li Zhaoying (569)
Resonant gravity-assist trajectory design for Sun's middle latitude exploration	Li Xiaoyu Zheng Jianhua (574)
Mathematical simulation method to calculate air minimum control speed	Jia Zhongren Huang Chengtao Wang Lixin (580)
Slipstream characters comparison of improved actuator disk model and 3D propeller numerical simulation	Duan Zhongzhe Liu Peiqing Qu Qiulin Liu Zhenchen (585)
Simulation of re-entry capsule thermodynamics environment by DES method	Liu Jia Yan Chao Zhao Rui Jiang Haijun (590)
Computer analysis of large-scale aircraft landing gear retraction and extension control system	Tu Yi Xiao Xiang Li Nan (595)
Optimization of target designation for air-ship missile under condition of bearing-only attack	Sun Tao Xie Xiaofang Tang Jiang Xue Wenguo (600)
Numerical simulation of parafoil aerodynamics and structural deformation based on loose coupled method	Zhang Chun Cao Yihua (605)
Multi-routes dynamic planning on deck of carrier plane based on clustering PSO	Han Wei Si Weichao Ding Dachun Song Yan (610)
Assembly sequence planning for aircraft based on non-orthogonalinterference matrix	Sun Zhanlei Zhao Gang Han Pengfei Guo Chunying (615)
New approach for generating flight load spectrum of civil aircraft	Liu Xiaoming Wan Shaojie Xiong Junjiang Li Qiang (621)
Full assembly fluid/structured flutter analysis of a transonic fan	Zheng Yun Yang Hui (626)
Numerical simulation of separated turbulent flow using GAO-YONG turbulent model	Gao Lin Gao Ge Jiang Lijun (631)
Adaptive subspace band selection method based on spectrum characteristics	Xu Qiu Li Na Zhao Huijie Li Xudong (635)
Dynamic modeling for a climbing robot	Yue Ronggang Wang Shaoping (640)
Attitude estimation based on quaternion square-root cubature Kalman filter	Qian Huaming Huang Wei Ge Lei Zhang Guangtuo (645)
Time and cost performance evaluation algorithm of workflow model	Pan Jun Liu Li (650)
Approximation by normal distribution with covering width based EM estimation	Han Liyan Cai Mingsheng Yin Libo (655)
Error analysis of surface current density on perfect electric conductor based on physical optics	Ji Jinzu Ma Yunpeng Huang Peilin Zhang Zhongjian (660)
Ray path tracing on discrete surface	Chen Zhixian Su Donglin Liu Yan Fang Xiang (665)
Brittle behavior of gold alloy joint soldered with tin-lead solder	Yin Na Qu Wenqing Yang Shujuan Li Rui (670)
Fatigue property of Al-Li alloy friction stir welded lap joints	Zhang Dandan Qu Wenqing Yang Mocong Chai Peng (674)
Solution algorithm of the three-body lambert problem with gravity assist maneuver	Luo Qinqin Han Chao (679)
Total dose dependence of off currents in the irradiated PD-SOI devices	En Yunfei Liu Yuan He Yajuan (683)
Ultrasonic phased array inspection for the corner of composite components	Zhang Dongmei Yu Guang Zhou Zhenggan Xu Na (688)
Post-processing of volumetric PIV data based on continuity condition	Gao Qi Wang Chengyue Wang Hongping Wang Jinjun (693)
Prediction of electromagnetic interference based on neural network	Yang Tianpeng Ma Qishuang Xie Qingming (697)
Storage reliability analysis of missile based on multi-mechanism competition degradation method	Luo Xiangyong Huang Xiaokai (701)
Parallel acquisition algorithm in time-frequency domain	Zhan Wei Zhang Xiaolin Li Juan (706)