

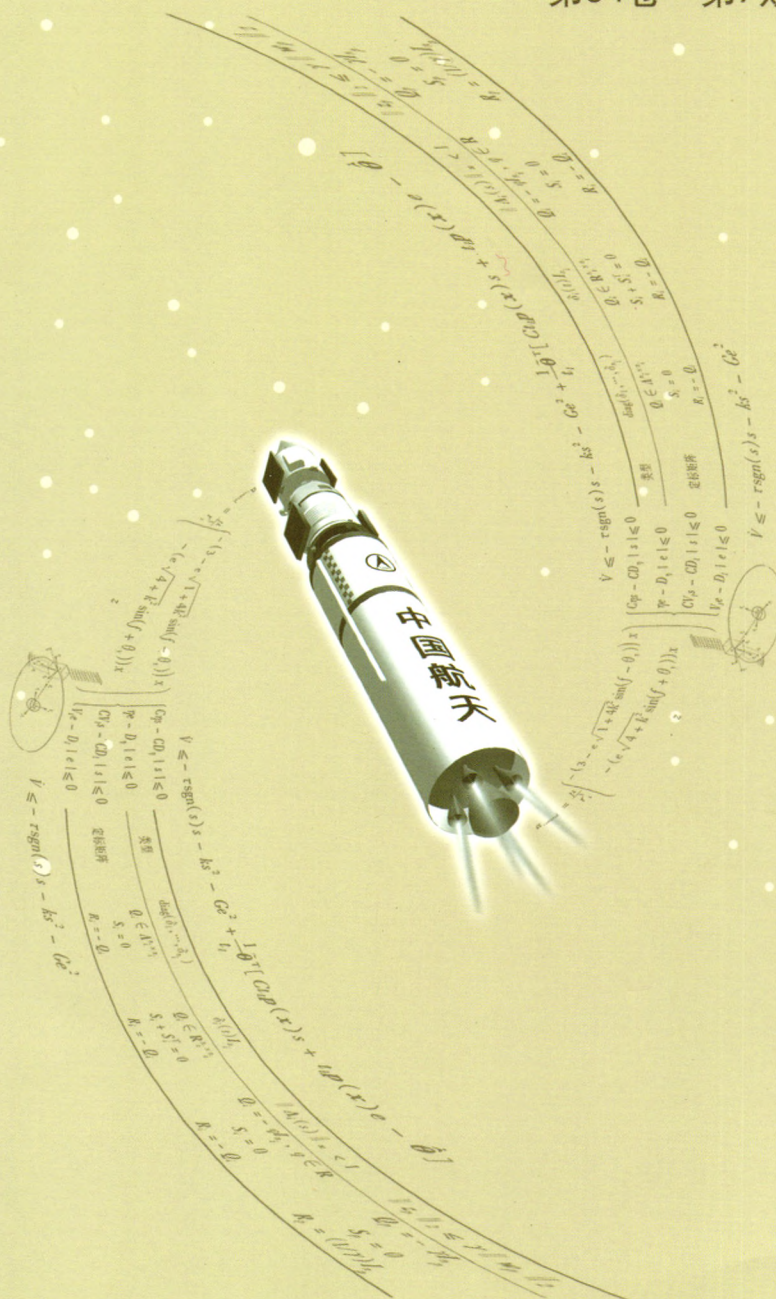


ISSN 1000-1328

宇航学报

Journal of Astronautics

第34卷 第7期 Vol.34 No.7



中国宇航学会
CHINESE SOCIETY OF ASTRONAUTICS

2013.07



宇航学报

第 34 卷第 7 期 2013 年 7 月

目 次

综 述

充气式再入减速器研究最新进展 卫剑征, 谭惠丰, 王伟志, 等(881)

飞行器设计与力学

基于节点改善策略的伪谱轨迹优化 闫循良, 廖守亿, 张金生, 等(891)

基于凸优化理论的含约束月球定点着陆轨道优化 林晓辉, 于文进(901)

解析求解非线性相对运动的最优重构问题 曹 静, 袁建平, 罗建军(909)

低重环境下旋转轴对称贮箱内液体晃动研究 杨旦旦, 岳宝增(917)

制导、导航与控制

基于 BP 神经网络的自主定轨自适应 Kalman 滤波算法 尚 琳, 刘国华, 张 锐, 等(926)

GNSS 接收机中一种新的射频干扰抑制级联方法 张提升, 郭文飞, 郑建生(932)

考虑执行机构故障的导弹姿态控制系统的集成容错控制 曹祥宇, 胡昌华, 乔俊峰(938)

地球大气边缘高超声速飞行再入点调整方法 郭正雄, 张 珩, 肖歆昕, 等(946)

基于自适应动态逆的高超声速飞行器姿态复合控制 逯晓光, 孔庆霞, 余 颖(955)

电子信息

面向火星临近空间的分布式中继纠错编码机制研究 李云鹤, 顾术实, 焦 健, 等(963)

基于敏捷卫星平台的星载 SAR Mosaic 模式研究 韩晓磊, 李世强, 王 宇, 等(971)

改进的极化 SAR 图像三分量分解方法 王春乐, 李光廷, 禹卫东(980)

交会对接微波雷达近距离高精度测角算法研究 严 琪, 杨瑞强, 钟兴旺, 等(987)

基于群相位量子化处理的新型高分辨率相位差测量方法 杜保强, 左艳迪, 王延峰, 等(993)

改进变异策略的自适应差分进化算法及其应用 汤小为, 汤 俊, 万 爽, 等(1001)

基于空间信息的射频隐身数据链最优能量控制算法 杨宇晓, 周建江, 陈卫东, 等(1008)

脉冲重复间隔测量误差对 SAR 欺骗干扰成像的影响 林晓烘, 刘培国, 薛国义(1014)

环境试验与器件

冗余航天火工装置可靠性评估方法及应用 荣吉利, 宋乾强, 张 涛, 等(1021)

期刊基本参数: CN11-2053/V * 1980 * b * A4 * 148 * zh * P * ¥60.00 * 1000 * 19 * 2013-07

JOURNAL OF ASTRONAUTICS

Vol. 34 No. 7 2013

CONTENTS

Comprehensive Review

New Trends in Inflatable Re-Entry Aeroshell WEI Jian-zheng, TAN Hui-feng, WANG Wei-zhi, *et al* (881)

Flight Vehicle Design and Mechanics

Trajectory Optimization Using Pseudospectral Method Based on a Grid Node Refinement Strategy
..... YAN Xun-liang, LIAO Shou-yi, ZHANG Jin-sheng, *et al* (891)

Constrained Trajectory Optimization for Lunar Pin-Point Landing Based on Convex Optimization Theory
..... LIN Xiao-hui, YU Wen-jin (901)

Analytical Solution of Optimal Reconfiguration for Nonlinear Relative Motion ... CAO Jing, YUAN Jian-ping, LUO Jian-jun (909)

Research on Sloshing in Axisymmetrical Containers Under Low Gravity YANG Dan-dan, YUE Bao-zeng (917)

GNC

An Adaptive Kalman Filtering Algorithm for Autonomous Orbit Determination Based-on BP Neural Network
..... SHANG Lin, LIU Guo-hua, ZHANG Rui, *et al* (926)

A Novel Cascade Approach for Radio Frequency Interference Suppression in GNSS Receiver
..... ZHANG Ti-sheng, GUO Wen-fei, ZHENG Jian-sheng (932)

Integrated Fault-Tolerant Control for Missile Attitude Control System Subjected to Actuator Faults
..... CAO Xiang-yu, HU Chang-hua, QIAO Jun-feng (938)

Adjustment Method of Re-Entry Position for Hypersonic Flight at Edge of Earth's Atmosphere
..... GUO Zheng-xiong, ZHANG Heng, XIAO Xin-xin, *et al* (946)

Attitude Control for Hypersonic Vehicle with Compound Actuators Based on Adaptive Dynamic Inversion
..... DI Xiao-guang, KONG Qing-xia, YU Ying (955)

Electronic and Information Engineering

Research on Distributed Relay Erasure Codes in Mars Proximity Network LI Yun-he, GU Shu-shi, JIAO Jian, *et al* (963)

A Study on Space-Borne SAR Mosaic Mode for an Agile Satellite HAN Xiao-lei, LI Shi-qiang, WANG Yu, *et al* (971)

Improved Three-Component Scattering Power Decomposition for Polarimetric SAR Image
..... WANG Chun-le, LI Guang-ting, YU Wei-dong (980)

Research on Near-Field High-Accuracy Angle Measurement Algorithm for Rendezvous and Docking Microwave Radar
..... YAN Qi, YANG Rui-qiang, ZHONG Xing-wang, *et al* (987)

Novel High-Resolution Phase Difference Measurement Method Based on Group Phase Quantization Processing
..... DU Bao-qiang, ZUO Yan-di, WANG Yan-feng, *et al* (993)

Adaptive Differential Evolution Algorithm with Modified Mutation Strategy and Its Application
..... TANG Xiao-wei, TANG Jun, WAN Shuang, *et al* (1001)

An Optimal Energy Control Algorithm for Radio Frequency Stealth Datalink Based on Spatial Information
..... YANG Yu-xiao, ZHOU Jian-jiang, CHEN Wei-dong, *et al* (1008)

Effect Caused by the Measurement Error of Pulse Repetition Interval for Deception Jamming under SAR Imaging
..... LIN Xiao-hong, LIU Pei-guo, XUE Guo-yi (1014)

Environmental Test and Device

Reliability Assessment Method for Redundant Aerospace Pyrotechnic Devices and Its Application
..... RONG Ji-li, SONG Qian-qiang, ZHANG Tao, *et al* (1021)