

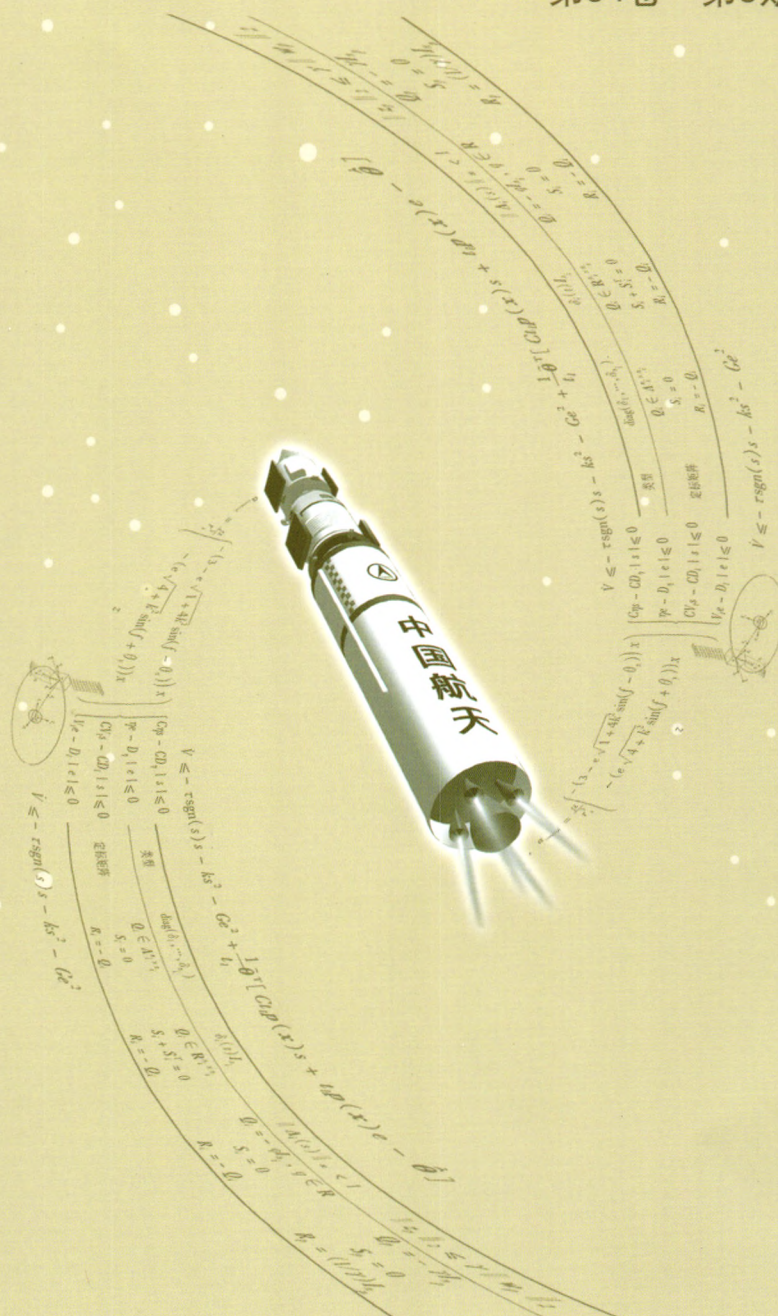


ISSN 1000-1328

宇航学报

Journal of Astronautics

第34卷 第8期 Vol.34 No.8



中国宇航学会
CHINESE SOCIETY OF ASTRONAUTICS

2013.08



宇航学报

第 34 卷第 8 期 2013 年 8 月

目 次

综 述

空间目标碰撞预警技术研究综述 白显宗, 陈 磊, 张 翼, 等(1027)

飞行器设计与力学

快船式飞行器参数化建模及高超声速气动计算 赵 彪, 崔乃刚, 郭继峰, 等(1040)

采用 Gauss 伪谱法的小推力日 - 火 Halo 轨道转移优化设计 曹喜滨, 张相宇, 王 峰(1047)

限制性四体问题中的时间相关不变流形 祁 瑞, 徐世杰(1055)

基于主任务零空间的空间机械臂重复运动规划 陈 钢, 张 龙, 贾庆轩, 等(1063)

制导、导航与控制

导引头隔离度寄生回路对视线角速度提取的影响 李富贵, 夏群利, 崔晓曦, 等(1072)

捷联惯导与星跟踪器组合导航算法研究 张金亮, 秦永元, 成 研(1078)

空间机器人一体化仿真系统的研究与实现 牟宗高, 徐文福, 孟得山(1084)

基于扰动观测器的巡航飞行器指数时变滑模控制 王 亮, 刘向东, 盛永智, 等(1091)

电子信息

基于空间目标特性的无缝搜索技术研究 孙 涛, 山秀明, 陈 鲸(1100)

分布式卫星系统的协同导航估计方法 王晓初, 尤 政, 赵开春, 等(1106)

基于多天线中继的卫星 - 地面混合无线通信系统上行链路性能分析 林 敏, 安 康, 欧阳健(1115)

非均匀信道增益控制的多载波卫星容量分析 张 飞, 边东明, 张更新, 等(1122)

基于自适应波形设计的天基雷达目标检测方法 王海涛, 叶 琦, 刘爱芳, 等(1130)

采用 ISAR 技术的 MIMO 雷达极坐标格式成像算法研究 陈 刚, 顾 红, 苏卫民(1137)

盲稀疏度信号重构的改进正交匹配追踪算法 季秀霞, 张 弓(1146)

基于双通道距离频率干涉相位解运动目标径向速度模糊方法 张学攀, 廖桂生, 朱圣棋, 等(1152)

提高光学遥感卫星图像几何精度总体设计分析 金 涛, 李 贞, 李 婷, 等(1159)

环境试验与器件

L、S 频段电磁波在等离子体中衰减实验研究 谢 楷, 李小平, 杨 敏, 等(1166)

利用单传感器的三维密闭空间突发持续污染源辨识研究 魏传锋, 庞丽萍(1172)

期刊基本参数: CN11-2053/V * 1980 * b * A4 * 152 * zh * P * ¥60.00 * 1000 * 20 * 2013-08

JOURNAL OF ASTRONAUTICS

Vol. 34 No. 8 2013

CONTENTS

Comprehensive Review

Survey on Collision Assessment and Warning Techniques for Space Object ... BAI Xian-zong, CHEN Lei, ZHANG Yi, *et al* (1027)

Flight Vehicle Design and Mechanics

Parametric Geometric Modeling and Hypersonic Aerodynamics Characteristics Calculation for Kliper Vehicle ZHAO Biao, CUI Nai-gang, GUO Ji-feng, *et al* (1040)
Optimization of Low-Thrust Transfer Trajectory for the Sun-Mars Halo Orbit Based on Gauss Pseudospectral Method CAO Xi-bin, ZHANG Xiang-yu, WANG Feng (1047)
Time-Dependent Invariant Manifolds in the Restricted Four-Body Problem QI Rui, XU Shi-jie (1055)
Repetitive Motion Planning for Space Manipulator Based on Null Space of Primary Task CHEN Gang, ZHANG Long, JIA Qing-xuan, *et al* (1063)

GNC

Effect of Seeker Disturbance Rejection Rate Parasitic Loop on Line of Sight Rate Extraction LI Fu-gui, XIA Qun-li, CUI Xiao-xi, *et al* (1072)
A SINS / Star Tracker Integrated Navigation Algorithm ZHANG Jin-liang, QIN Yong-yuan, CHENG Yan (1078)
Research and Implementation of Integrated Simulation System of Space Robot MU Zong-gao, XU Wen-fu, MENG De-shan (1084)
Disturbance Observer Based Exponential Time-Varying Sliding Mode Flight Control Design for Cruise Vehicle WANG Liang, LIU Xiang-dong, SHENG Yong-zhi, *et al* (1091)

Electronic and Information Engineering

Research of Seamless Search Technique Based on Space Object Characters SUN Tao, SHAN Xiu-ming, CHEN Jing (1100)
A Cooperative Navigation Estimation Method in Distributed Satellite System WANG Xiao-chu, YOU Zheng, ZHAO Kai-chun, *et al* (1106)
Performance Analysis of Uplink of Hybrid Satellite-Terrestrial Wireless Communication System with Multi-Antenna Relay LIN Min, AN Kang, OUYANG Jian (1115)
Capacity Analysis of Multi-Carrier SATCOM Systems with Heterogeneous Gain-State Control ZHANG Fei, BIAN Dong-ming, ZHANG Geng-xin, *et al* (1122)
Target Detection Based on Adaptive Waveform Design for Space Based Radar WANG Hai-tao, YE Qi, LIU Ai-fang, *et al* (1130)
Research on Polar Format Imaging Algorithm for MIMO Radar Based on ISAR Technique CHEN Gang, GU Hong, SU Wei-min (1137)
An Improved Orthogonal Matching Pursuit Algorithm for Blind Sparsity Signal Reconstruction JI Xiu-xia, ZHANG Gong (1146)
Radial Velocity Ambiguity Resolving Approach for Moving Targets Based on Dual-Channel Interferometric Phase of Range Frequency ZHANG Xue-pan, LIAO Gui-sheng, ZHU Sheng-qi, *et al* (1152)
System Design and Analysis for Improving Geometric Accuracy of High-Resolution Optical Remote Sensing Satellite Image JIN Tao, LI Zhen, LI Ting, *et al* (1159)

Environmental Test and Device

Experimental Study on Attenuation Characteristics of L and S Band Electromagnetic Wave in Plasma XIE Kai, LI Xiao-ping, YANG Min, *et al* (1166)
Accidental Continued Contaminant Identification Study in Three-Dimensional Enclosed Space by a Single Sensor WEI Chuan-feng, PANG Li-ping (1172)