

万方数据



ISSN 1005—6734

CODEN ZGJXAP

中国惯性技术学报

Journal of Chinese Inertial Technology

美国《工程索引》(Ei Compendex) 收录刊源

2021.4

第29卷

Vol.29

第4期

No.4

2021年8月

Aug.2021

中国惯性技术学会
天津航海仪器研究所

主办

目 次

· 惯性系统研究与分析 ·

双轴旋转调制捷联惯导系统旋转方案优化设计

.....谢元平, 范会迎, 王子超, 罗 晖, 于旭东 (421)

· 组合导航技术 ·

基于双层神经网络模型参数辨识的变结构多模型自主导航方法

.....许晓伟, 赖际舟, 吕 品, 陆俊清, 白师宇, 胡华峰 (428)

基于线特征的无人机自主着陆惯性/视觉导航方法

.....李 洪, 王大元, 明 丽, 童 栋 (437)

基于深度残差网络的重力数据去噪重构

.....黄子炎, 王庆宾, 赵东明, 冯进凯, 谭勛立 (443)

载波相位时间差分辅助的 SINS/GNSS 紧组合导航方法

.....董 毅, 王鼎杰, 吴 杰 (451)

基于灰色模型和改进粒子滤波的无人机视觉/INS 导航算法

.....黄卫华, 何佳乐, 陈 阳, 章 政, 郭庆瑞 (459)

多参考地基增强系统电离层梯度完好性监测方法

.....程建华, 李家祥, 李 亮, 姜 超, 齐 兵 (467)

带不确定混合噪声系统的变分贝叶斯期望最大滤波算法

.....马天力, 张 扬, 陈超波 (475)

一种基于 M 估计的抗差自适应多模型组合导航算法

.....徐晓苏, 仲灵通 (482)

· 惯性仪表研究与设计 ·

一种全对称八质量 MEMS 陀螺的设计

.....姜 波, 李毅轩, 苏 岩 (491)

基于碱金属磁力仪的铷原子横向弛豫时间测量方法
.....岳亚洲, 雷 兴, 曹耀辉, 李 俊, 刘元正, 明泽额尔顿 (496)

集成化光纤陀螺设计、制造及未来发展
.....尚克军, 雷 明, 李豪伟, 冯 喆, 姜千红, 张丽哲 (502)

半球谐振子装配倾角误差对频率裂解的影响分析
.....宁友欢, 伊国兴, 奚伯齐, 解伟男, 魏振楠, 王常虹 (510)

一种 MEMS 多环谐振陀螺的品质因数在线测试方法
.....任静波, 周 怡, 朱欣华, 周 同, 苏 岩 (516)

基于主动驱动旋转的全角模式半球谐振陀螺驻波漂移补偿方法
.....王 奇, 解伟男, 伊国兴, 王泽宇, 奚伯齐 (522)

一种半球谐振子固有刚性轴方位的标定方法
.....袁立山, 解伟男, 奚伯齐, 王泽宇, 伊国兴, 曾庆双 (526)

基于同频调制解调的谐振式光纤陀螺仪
.....刘 路, 刘 霜, 钱伟文, 李汉钊, 马慧莲, 金仲和 (532)

谐振式光学陀螺用激光器双电流源混合驱动方法
.....王琪伟, 王泽宇, 杨 博, 周晓娜, 徐万扬 (536)

谐振式光纤陀螺空间光学谐振腔耦合效率分析与设计
.....蓝士祺, 李 俊, 岳亚洲 (541)

· 控制与动力学 ·

基于修正牛顿迭代的固体运载火箭末修级制导方法
.....葛云鹏, 梁 卓, 吕 瑞, 涂海峰, 陈 喆 (549)

· 可靠性研究 ·

基于 PNN 的北斗转发式欺骗干扰信号检测方法
.....庞春雷, 郭泽辉, 吕敏敏, 张 良, 翟 丁, 张 闯 (554)

期刊基本参数: CN12-1222/O3*1989*b*A4*zh*P*¥60*1100*21*2021-08

CONTENTS

• Inertial System Research and Analysis •

Optimization design of rotation scheme for dual-axis rotation-modulation strapdown inertial navigation System
..... XIE Yuanping, FAN Huiying, WANG Zichao, LUO Hui, YU Xudong (421)

• Integrated Navigation Technology •

Autonomous navigation method based on model parameters identification of TVSMM
..... XU Xiaowei, LAI Jizhou, LV Pin, LU Junqing, BAI Shiyu, HU Huafeng (428)

Inertial/visual navigation method of UAV autonomous landing based on line features
..... LI Hong, WANG Dayuan, MING Li, TONG Li (437)

Gravity data denoising and reconstruction based on deep residual network
..... HUANG Ziyang, WANG Qingbin, FENG Jinkai, TAN Xuli (443)

MEMS-based SINS/GNSS tightly-coupled navigation aided by time-differenced carrier-phase measurements
..... DONG Yi, WANG Dingjie, WU Jie (451)

UAV vision/INS navigation algorithm based on grey model and improved particle filter
..... HUANG Weihua, HE Jiale, CHEN Yang, ZHANG Zheng, GUO Qingrui (459)

Multi reference-based integrity monitoring of ionospheric gradient for ground based augmentation system
..... CHENG Jianhua, LI Jiayang, LI Liang, JIANG Chao, QI Bing (467)

Variational Bayesian expectation-maximization filter for systems with uncertain hybrid noises
..... MA Tianli, ZHANG Yang, CHEN Chaobo (475)

Robust adaptive multiple model integrated navigation algorithm based on M-estimation
..... XU Xiaosu, ZHONG Lingtong (482)

• Inertial Instrument Research and Design •

Design of a symmetrical eight-mass MEMS gyroscope
..... JIANG Bo, LI Yixuan, SU Yan (491)

Measuring method of rubidium atom transverse relaxation time based on alkali metal magnetometer

..... YUE Yazhou, LEI Xing, CAO Yaohui, LI Jun, LIU Yuanzheng, MINGZE Erdun (496)

Design, manufacturing and future development of the integrated fiber optic gyroscope

..... SHANG Kejun, LEI Ming, LI Haowei, FENG Zhe, JIANG Qianhong, ZHANG Lizhe (502)

The influence of assembly inclination error in hemispherical resonator on frequency splitting

..... NING Youhuan, YI Guoxing, XI Boqi, XIE Weinan, WEI Zhennan, WANG Changhong (510)

An online quality factor testing method for MEMS disk resonator gyroscope

..... REN Jingbo, ZHOU Yi, ZHU Xinhua, ZHOU Tong, SU Yan (516)

Compensation method of standing wave drift of whole angle mode hemispherical resonator gyro based on actively driving rotation

..... WANG Qi, XIE Weinan, YI Guoxing, WANG Zeyu, XI Boqi (522)

A calibration method for the orientation of the inherent rigid axis of hemispherical harmonic oscillator

..... YUAN Lishan, XIE Weinan, XI Boqi, WANG Zeyu, YI Guoxing, ZENG Qingshuang (526)

Resonant fiber optic gyroscope based on the reciprocal modulation-demodulation technique

..... LIU Lu, LIU Shuang, QIAN Weiwen, LI Hanzhao, MA Huilian, JIN Zhonghe (532)

Dual-current hybrid drive method for lasers used in resonator optic gyro

..... WANG Qiwei, WANG Zeyu, YANG Bo, ZHOU Xiaona, XU Wanyang (536)

Analysis and design of coupling efficiency in space coupling cavity for resonator fiber optic gyroscope

..... LAN Shiqi, LI Jun, YUE Yazhou (541)

• Control and Dynamics •

Terminal correction guidance of solid rocket based on modified Newton iteration method

..... GE Yunpeng, LIANG Zhuo, LV Rui, TU Haifeng, CHEN Zhe (549)

• Reliability Research •

BDS against repeater deception jamming detection algorithm based on PNN

..... PANG Chunlei, GUO Zehui, LV Minmin, ZHANG Liang, ZHAI Ding, ZHANG Chuang (554)