

美国《工程索引》(Ei Compendex)收录刊源

ISSN 1005-6734

CODEN ZGJXAP

中国惯性技术 学报

Journal of Chinese Inertial Technology

ZHONGGUO GUANXING JISHU XUEBAO

第20卷 第4期 2012年8月

Vol. 20 No. 4 Aug. 2012

4

2012

中国惯性技术学会主办



中国惯性技术学报

2012年8月 第20卷 第4期

目 次

惯性系统研究与分析

- 机载分布式POS传递对准建模与仿真.....房建成,张 舟,官晓琳(379)
UPF+KF在双轴旋转光学SINS非线性初始对准中的应用.....袁书明,孙伟强,黄凤荣,于 浩(386)
单陀螺多加速度计捷联惯性导航解算方法.....李 安,覃方君,许江宁(391)
消除舒拉振荡误差的理论与实践.....汪湛清,房建成,汪顺亭,王志强(395)
航天测量船静电陀螺监控器海上动态标定.....吴旭贤,周海渊,程 龙,孙 吴(400)
可观测度的探讨及其在捷联惯导系统可观测性分析中的应用.....杨晓霞,阴玉梅(405)
惯性导航系统重力扰动矢量补偿技术.....李胜全,欧阳永忠,常国宾,金际航,李 科(410)
捷联惯导系统尺寸效应分析与补偿.....谢 波,秦永元,万彦辉,师为健(414)
单轴旋转惯导系统转轴陀螺常值漂移综合校正方法.....王 超,朱 海,高大远(421)
基于大失准角时变参数罗经初始对准算法.....翁 浚,严恭敏,秦永元,张金红(425)

组合导航技术

- 基于GPU的GPS信号并行捕获.....杨 静,刘一霏(430)
基于移动相关的最小二乘地图匹配新算法.....龚柏春,罗建军,李岁劳,李 欣(435)
一种适用于星敏感器的大角速度下星跟踪算法.....管 宇,张迎春,王常虹(440)
一种新的实时相关极值匹配算法设计与仿真.....黄晓颖,童余德,边少锋(444)
一种基于“当前”统计模型的DVL/SIMU船位推算方法.....刘 强,徐晓苏,许江宁(450)
四旋翼飞行器建模及位置跟踪控制(英文).....王红雨,赵健康,郁文贤,田蔚风(455)
权值自适应调整Unscented粒子滤波及其在组合导航中的应用.....薛 丽,高社生,赵 岩(459)
基于GPS伪距单差的舰船相对导航方法.....王秀森,周红进,张尚锐(464)

惯性仪表研究与设计

- 硅微谐振加速度计交流检测信号解耦技术.....王 巍,王 岩,庄海涵,邢朝洋(468)
光纤陀螺标度因数的测试误差分析.....那永林,李丽坤,吴衍记,孙国飞,于怀勇(472)
陀螺零偏二次模型参数的系统级辨识算法.....李鹏飞,胡小毛,周 喆,张崇猛(478)
提高石英音叉陀螺驱动信号稳定性的数字电路设计.....冯立辉,王 健,张志雄,孙雨南,崔 芳(481)
一种谐振式微加速度计表芯非线性动力学分析及实验.....刘 恒,刘清倦,孟瑞丽(485)

测试技术与设备

- 空间稳定系统加速度计在线标校.....何虔恩,高钟毓,吴秋平(491)
高精度加速度计分辨率的动态估算方法.....李海兵,朱志刚,魏宗康,韩军海,胡延祯(496)
转台的粗糙神经网络故障诊断系统设计.....赵佰亭,贾晓芬,曾庆双(501)

期刊基本参数: CN12-1222/O3*1989*b*A4*126*zh**en*P*¥15.00*1500*26*2012-08

Contents

Inertial System Research and Analysis

- Modeling and simulation of transfer alignment for distributed POS.....FANG Jian-cheng, ZHANG Zhou, GONG Xiao-lin (379)
Application of UPF+KF combined nonlinear filter in initial alignment of dual-axis rotation type optical SINS
.....YUAN Shu-ming, SUN Wei-qiang, HUANG Feng-rong, YU Hao (386)
Calculative method for single-gyro-multi-accelerometer strapdown inertial navigation system
.....LI An, QIN Fang-Jun, XU Jiang-Ning (391)
Theory and practice for eliminating Shuler oscillation
.....WANG Zhan-qing, FANG Jian-cheng, WANG Shun-ting, WANG Zhi-qiang (395)
Dynamic calibration of ESGM on TT&C ship at sea area.....WU Xu-xian, ZHOU Hai-yuan, CHENG Long, SUN Hao (400)
Discussions on observability and its applications in SINS.....YANG Xiao-xia, YIN Yu-mei (405)
Compensation technology of gravity disturbance vector in inertial navigation system
.....LI Sheng-quan, OUYANG Yong-zhong, CHANG Guo-bin, JIN Ji-hang, LI Ke (410)
Analysis and compensation for size effect of strapdown inertial navigation system
.....XIE Bo, QIN Yong-yuan, WAN Yan-hui, SHI Wei-jian (414)
Comprehensive calibration of rotation axis gyro constant bias for single-axial rotation of INS
.....WANG Chao, ZHU Hai, GAO Da-yuan (421)
Variable parameter gyrocompass alignment algorithm based on large error angle model
.....WENG-Jun, YAN GONG-min, QIN Yong-yuan, ZHANG Jin-hong (425)

Integrated Navigation Technology

- Parallel-acquisition of GPS signal based on graphic processing unit.....YANG Jing, LIU Yi-fei (430)
Novel map-matching algorithm based on moving-related least squares.....GONG Bai-chun, LUO Jian-jun, LI Sui-lao, LI Xin (435)
Star tracking algorithm under large angle velocity for star sensor.....GUAN Yu, ZHANG Ying-chun, WANG Chang-hong (440)
Real-time maximum correlation matching algorithm based on approximated local gravity map
.....HUANG Xiao-ying, TONG Yu-de, BIAN Shao-feng (444)
DVL/SIMU dead-reckoning method based on “current” statistical model.....LIU Qiang, XU Xiao-su, XU Jiang-ning (450)
Modelling and position tracking control for quadrotor vehicle
.....WANG Hong-yu, ZHAO Jian-kang, YU Wen-xian, TIAN Wei-feng (455)
Unscented particle filtering with adaptive adjusted weight and its application in integrated navigation
.....XUE Li, GAO Shesheng, ZHAO Yan (459)
Relative navigation between vessels based on GPS single difference.....WANG Xiu-sen, ZHOU Hong-jin, ZHANG Shang-yue (464)

Inertial Instrument Research and Design

- AC detection signal decoupling for silicon resonant accelerometer
.....WANG Wei, WANG Yan, ZHUANG Hai-han, XING Chao-yang (468)
Measurement error analysis of FOG’s scale factor.....NA Yong-lin, LI Li-kun, WU Yan-ji, SUN Guo-fei, YU Huai-yong (472)
System-level identification algorithm for quadratic model parameters of gyro bias
.....LI Peng-fei, HU Xiao-mao, ZHOU Zhe, ZHANG Chong-meng (478)
Digital circuit design to improve drive signal amplitude stability of quartz tuning fork gyroscope
.....FENG Li-hui, WANG Jian, ZHANG Zhi-xiong, SUN Yu-nan, CUI Fang (481)
Analysis and experiment on nonlinear dynamics of resonant micro-accelerometer
.....LIU Heng, LIU Qing-quan, MENG Rui-li (485)

Test Technology and Equipment

- Online calibration and compensation of accelerometer assembly for space-stable inertial navigation systems
.....HE Qian-en, GAO Zhong-yu, WU Qiu-ping (491)
Dynamic estimation method for resolution of high precision accelerometer
.....LI Hai-bing, ZHU Zhi-gang, WEI Zong-kang, HAN Jun-hai, HU Yan-zhen (496)
Design of rough-neural network fault diagnosis system for turntable.....ZHAO Bai-ting, JIA Xiao-fen, ZENG Qing-shuang (501)