



航空学报 » 1999, Vol. 20 » Issue (2) :127-129 DOI:

论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< << 前一页 | 后一页 >> >>

差分GPS载波相位测量整周模糊度的快速求解

胡国辉<sup>1</sup>, 孟浩<sup>2</sup>, 袁信<sup>1</sup>

1. 南京航空航天大学自动控制系, 南京, 210016; 2. 哈尔滨工程大学自动控制系, 哈尔滨, 150001

FAST CARRIER PHASE AMBIGUITY RESOLUTION FOR DIFFERENCE GPS

Hu Guohui<sup>1</sup>, Meng Hao<sup>2</sup>, Yuan Xin<sup>1</sup>

1. Department of Automatic Control, Nanjing University of Aeronautics & Astronautics, Nanjing, 210016; 2. Department of Automatic Control, Harbin Engineering University, Harbin, 150001

摘要

参考文献

相关文章

Download: PDF (248KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

摘要

对Cholesky分解整周模糊度的求解进行了改进, 在求解整周模糊度的过程中, 首先采用LAMBDA法对整周模糊度进行整数线性变换再作Cholesky分解, 然后利用最优剪枝法(bestcut)对整周模糊度进行搜索, 实验结果表明该方法具有快速搜索整周模糊度的能力, 可以满足采用GPS载波相位测量确定姿态以及GPS载波相位测量与INS组合的实时性。

关键词: 导航 整周模糊度 载波相位 Cholesky分解

Abstract:

The paper presents a new development method for Cholesky ambiguity search method. The method makes use of an ambiguity reparametrization, Cholesky decomposition and best cut. Experiment results show that the method can achieve fast search ability, and satisfy real time attitude determination and GPS/INS integration with GPS carrier phase measurement.

Keywords: navigation ambiguity carrier phase Cholesky factorization

Received 1998-05-20; published 1999-04-25

引用本文:

胡国辉; 孟浩; 袁信. 差分GPS载波相位测量整周模糊度的快速求解[J]. 航空学报, 1999, 20(2): 127-129. DOI:

Hu Guohui; Meng Hao; Yuan Xin. FAST CARRIER PHASE AMBIGUITY RESOLUTION FOR DIFFERENCE GPS[J]. Acta Aeronautica et Astronautica Sinica, 1999, 20(2): 127-129. DOI:

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

- ▶ 胡国辉
- ▶ 孟浩
- ▶ 袁信