



航空学报 » 1999, Vol. 20 » Issue (2) :32-34 DOI:

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### 差分GPS载波相位测量整周模糊度的快速求解

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### FAST CARRIER PHASE AMBIGUITY RESOLUTION FOR DIFFERENCE GPS

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摘要

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**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(best cut)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): 32-34.

Hu Guohui; Meng Hao; Yuan Xin. FAST CARRIER PHASE AMBIGUITY RESOLUTION FOR DIFFERENCE GPS[J]. Acta Aeronautica et Astronautica Sinica, 1999, 20(2): 32-34.

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