



航空学报 » 2001, Vol. 22 » Issue (1) :61-63 DOI:

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GPS载体姿态测量中的LAMBDA方法研究

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LAMBDA METHOD FOR RIGID BODY ATTITUDE DETERMINATION BASED ON GPS

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摘要

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摘要 研究了采用双基线方案测量载体的姿态,利用 GPS载波相位干涉测量基线矢量,引入 LAMBDA法解算整周模糊度,由 CPU时间图可以看出这种方法能快速而准确地解算整周模糊度,对于实时姿态测量(RAD)系统具有很好的应用价值

关键词: GPS 姿态测量 整周模糊度 最小二乘

Abstract: The rigid body's attitude determination is discussed using two baselines based on GPS; baseline vector coordinates are calculated with GPS carrier phase interference, and integer ambiguities are calculated with LAMBDA method. CPU time figure shows that this method calculates integer ambiguities quickly and correctly, which has good application value for real time attitude determination systems.

Keywords: GPS at t itude determ inat ion integer ambiguity least2square

Received 2000-02-15; published 2001-02-25

引用本文:

王惠南;应金栋. GPS载体姿态测量中的LAMBDA方法研究[J]. 航空学报, 2001, 22(1): 61-63.

WANG Hui-nan;YING Jin-dong. LAMBDA METHOD FOR RIGID BODY ATTITUDE DETERMINATION BASED ON GPS[J]. Acta Aeronautica et Astronautica Sinica, 2001, 22(1): 61-63.

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