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### 伪距解除相关法在GPS/SINS紧组合系统中的应用研究

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### RESEARCH ON THE DECORRELATED PSEUDO-RANGE APPROACH FOR USE IN THE TIGHTLY-COUPLED GPS/SINS INTEGRATION SYSTEM

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摘要

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**摘要** 介绍了伪距解除相关法的原理, 设计了一种加权平均跟踪误差估计器, 用以估计 GPS接收机码环跟踪误差。研究表明, 与未对伪距测量值进行修正时相比, 应用伪距解除相关技术可以减小组合系统的导航误差, 提高系统的导航精度

**关键词:** 导航系统 误差 分析 卡尔曼滤波器

**Abstract:** The principle of the decorrelated pseudo range approach is presented. A weighted mean tracking error estimator is designed to estimate the GPS receiver code loop tracking error. Compared with the results from the uncorrected pseudo range measurements, the decorrelated pseudo range approach can reduce the integration system navigation errors, and improve the system navigation accuracy.

**Keywords:** navigation system error analysis Kalman filters

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