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### GPS选择可用性(SA)信号采集与建模

赵剡, 王壬林, 邱意平

北京航空航天大学宇航学院, 北京, 100083

### GPS SA SIGNAL COLLECTING & MODELING

Zhao Yan, Wang Renlin, Qiu Yiping

School of Space Technology, Beijing University of Aeronautics and Astronautics, Beijing, 100083

摘要

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**摘要** 分析了GPS测量伪距的各组成部分,设计了一个GPS数据实时采集系统,通过定位计算和时钟偏移滤波的方法分离SA误差信号,经检验指出SA误差信号基本是零均值的平稳随机过程,对一段时期定点观测到的SA误差信号进行AR(13)的模型辨识,获得大量的模型数据,从时域和频域对模型参数进行分析得到一些有益的结论。

**关键词:** GPS SA 时间序列 定位 滤波 建模

**Abstract:** Components of observed GPS pseudo range are analysed. A real time data collection system is designed. SA error signal is extracted by positioning computation and filtering clock bias. Testing result points out that the SA error is basically a stationary stochastic process with zero mean. AR(13) model is identified for SA error with the data collected in a fixed location during a period of time, and then a great deal of the model parameters are obtained. Some useful conclusions are derived by analysis of model parameters in the time domain and frequency domain.

**Keywords:** GPS SA time series positioning filtering modeling

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