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卫星-惯性-星光最优组合导航系统在航天飞机导航中的应用

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APPLICATION OF GPS-INS-STAR INTEGRATED NAVIGATION SYSTEM IN SPACECRAFT

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摘要

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摘要 文中对航天飞机星光-惯性导航系统进行了简要分析从最优系统组成原理、余度管理方法、系统性能分析等方面研究了卫星-惯性-星光组合导航系统的概念设计。

关键词:

Abstract: In this paper the spacecraft stellar-inertial system is briefly reviewed. In order to generate high grade translational and rotational information of the spacecraft, a concept of GPS-INS-STAR optimal integrated navigation system is studied. The problems discussed include system composition, design philosophy, performance analysis, inertial measurement unit redundancy management techniques and Kalman filter configuration. Computer simulation results show that this approach would lead to an accurate, autonomous, cost-effective and fault-tolerant navigation system.

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