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论文

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惯性导航系统各种传递对准方法讨论

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A STUDY OF TRANSFER ALIGNMENT METHODS OF INS

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摘要

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摘要 本文按对准基本原理将惯性导航系统各种传递对准方法分为两大类,一类可称为计算参数匹配法,它包括速度匹配和位置匹配;另一类可称为测量参数匹配法,它包括加速度匹配、姿态匹配和角速度匹配。文中详细讨论了这两类方法的性质,指出:计算参数匹配法类似静基座自对准和空间率对准,在载体无机动作时对准时间较长。测量参数匹配法对准时间短,但受载体挠性变形的影响大。

关键词:

Abstract: In this paper, the methods of transfer alignment of inertial navigation system (INS) are divided into two classes according to their fundamental principle of alignment. One can be called calculating parameter matching, such as velocity matching and position matching. Another can be called measuring parameter matching, such as acceleration matching, attitude matching and angular rate matching. This paper points out that the calculating parameter matching is similar to the self-alignment on stationary base and the spatial rate alignment, it takes long time required for alignment when the vehicle has no maneuver, and the measuring parameter matching takes less time required for alignment, but the accuracy of alignment is affected by vehicle elastic deformation.

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