

Fundamentals High Accuracy Inertial Navigation

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2 Inertial Navigation • Bearings are not frictionless. • Motors are not perfect (i.e. dead zones, etc.). • Consumes power to keep the platform aligned with the navigational frame which is not always good on an embedded system. • Cost is high due to the need for high quality motors, slip rings, bearings and other mechanical parts.

Inertial Navigation - University of Florida

'Fundamentals of High Accuracy Inertial Navigation' describes the essential parts played by control system theory and geodesy.

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Summary : Fundamentals of Inertial Navigation, Satellite-based Positioning and their Integration is an introduction to the field of Integrated Navigation Systems. It serves as an excellent reference for working engineers as well as textbook for beginners and students new to the area. The book is easy to read and understand with minimum background knowledge.

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Error propagation is dealt with at length and the propagation of inertial instrument errors is given extensive treatment. 'Fundamentals of High Accuracy Inertial Navigation' is divided into three parts: inertial navigation, inertial navigation with aids, and accuracy analysis.

Fundamentals of High Accuracy Inertial Navigation (??)

Vision-aided Inertial Navigation Systems (V-INS) can provide precise state estimates for the 3D motion of a vehicle when no external references (e.g., GPS) are available. This is achieved by combining inertial measurements from an IMU with visual observations from a camera under the assumption that the rigid transformation between the two sensors is known.

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Inertial Navigation | SpringerLink

Chatfield A B 1997 Fundamentals of High Accuracy Inertial Navigation (American Institute of Aeronautics and Astronautics, Inc.) Crossref Google Scholar El-Sheimy N 2006 ENGO 623 Lecture Notes: Inertial Techniques and INS/DGPS Integration Department of Geomatics Engineering, The University of Calgary, Winter

A new multi-position calibration method for MEMS inertial ...

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