

Fundamentals Of High Accuracy Inertial Navigation

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Fundamentals of High Accuracy Inertial Navigation is divided into three parts: inertial navigation, inertial navigation with aids, and accuracy analysis. The first two parts are designed to give the reader an understanding of the fundamentals without requiring knowledge of the statistical analysis techniques involved in determining the effects of errors on accuracy.

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The primary focus of "Fundamentals of High Accuracy Inertial Navigation" is on the physical and mathematical principles forming the basis for inertial navigation. The material in the book is directly applicable to the inertial navigation of all types of vehicles whether on land, in or on

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the ocean, in the atmosphere, or in space in the vicinity of the Earth.

Fundamentals of High Accuracy Inertial Navigation : Averil ...

Fundamentals of High Accuracy Inertial Navigation Averil B. Chatfield Volume 174 PROGRESS IN ASTRONAUTICS AND AERONAUTICS Paul Zarchan, Editor-in-Chief Charles Stark Draper Laboratory, Inc. Cambridge, Massachusetts Published by the American Institute of Aeronautics and Astronautics, Inc. 1801 Alexander Bell Drive, Reston, Virginia 20191-4344

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This is achieved by combining inertial measurements from an IMU with visual observations from a camera under the assumption that the rigid transformation

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between the two sensors is known. Errors in the IMU-camera calibration process causes biases that reduce the accuracy of the estimation process and can even lead to divergence.

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Chapter 1. Introduction. Forces

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Producing Motion; Gravitation; Inertia; Inertial Equivalence of Earth-Centered Frame; Fundamental Equation of Inertial Navigation; Description of an Inertial Navigation System; Inertial Measurements; Four Phases of Inertial Navigation; Role of Geodesy

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Navigation (??)

Now, dividing both sides of the equation by the mass of the object results in the specific force. (4) In inertial navigation, accelerometers detect accelerations due to forces exerted on the body. These forces are typically referred to as specific forces (S).

Inertial Navigation - mil.ufl.edu

An inertial frame of reference in classical physics and special relativity possesses the property that in this frame of reference a body with zero net force acting upon it does not accelerate; that is, such a body is at rest or moving at a constant velocity.

Inertial frame of reference - Wikipedia

Fundamentals of Inertial Navigation, Satellite-based Positioning and their Integration is an introduction to the field of Integrated Navigation Systems. It serves

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