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3 Basic principles of strapdown inertial navigation systems + Show details-Hide details p. 17 -58 (42) The previous chapter has provided some insight into the basic measurements that are necessary for inertial navigation. For the purposes of the ensuing discussion, it is assumed that measurements of specific force and angular rate are available along and about axes which are mutually ...

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Strapdown Inertial Navigation Technology

Strapdown inertial navigation The second problem in tracking and navigation is concerned with estimating the location and orientation of a body for which we have onboard kinematic measurements.

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An inertial navigation system (INS) is a navigation device that uses a computer, motion sensors (accelerometers) and rotation sensors to continuously calculate by dead reckoning the position, the orientation, and the velocity (direction and speed of movement) of a moving object without the need for external references. Often the inertial sensors are supplemented by a barometric altimeter and ...

Inertial navigation system - Wikipedia

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In many modern aircraft, like multi-rotor UAVs or drones, flight navigation and control is critical for maintaining safe and stable flight. One major way navigation is done on UAVs is with a strapdown inertial navigation system (INS).

Strapdown Inertial Navigation Systems - Tufts University

The areas of concentration are applied mechanics, biomechanics, computational mechanics, dynamic systems and control, energetics, mechanics of materials, processing, ther mal science, and tribology. I am pleased to present this volume in the Series: Modern Inertial Technology: Navigation, Guidance, and Control, Second Edition, by Anthony ...

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In contrast, in strapdown navigation systems, the inertial sensors are fastened directly to the vehicle's body, which means the sensors rotate together with the vehicle. This strapped down method eliminates the drawbacks of stable platform navigation. However, the accuracy of platform navigation is often higher than SINS.

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