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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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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).

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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 ...

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material originally published in the two volume textbook Strapdown Analytics (Ref. 6), the second edition of which has been recently published (Reference 9). Strapdown Analytics provides a broad detailed exposition of the analytical aspects of strapdown inertial navigation technology.

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