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Strapdown Inertial Navigation Technology Second

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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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ing requirements by using integrated navigation systems, in which strapdown inertial navigation systems are used in conjunction with other navigation aids. The variety of modern navigation aids now available is extensive and, coupled with advances in estimation processing techniques and high-speed computer processors, have resulted

Integrated navigation systems - pudn.com

5.0 out of 5 stars Excellent Inertial Book Reviewed in the United States on July 26, 2007 Strapdown Inertial Nav. is an excellent book for those who would like to understand the technology or learn how to process inertial sensor data.

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The toolbox uses state-of-the-art strapdown integration and estimation techniques. The INS mechanization applies second-order coning and sculling corrections. Many options exist for the initial alignment. For tactical or navigation grade IMUs, the analytical coarse alignment and fine alignment techniques are implemented.

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