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and concise description of the physical principles of
inertial

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An inertial navigation system (INS) is a navigation device that uses a computer, motion sensors

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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

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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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number of novel applications such as surveying underground pipelines in drilling operations.

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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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