

Strapdown inertial navigation technology

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Abstrak

Inertial navigation is widely used for the guidance of aircraft, missiles ships and land vehicles, as well as in a number of novel applications such as surveying underground pipelines in drilling operations. This book sets out to provide a clear and concise description of the physical principles of inertial navigation, the associated growth of errors and their compensation. There is also detailed treatment of recent developments in inertial sensor technology and a description of techniques for implementing and evaluating such systems. This new edition includes a number of refinements covering sensor technology, geodesy and error modelling, the major additions to the original text are new chapters on MEMS technology and inertial system applications.