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Error propagation is dealt with at length and the propagation of inertial instrument errors is given extensive treatment.

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designed to give the reader an understanding of the fundamentals without requiring knowledge of the statistical analysis techniques involved in determining the effects of errors on accuracy.

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The FOS accuracy enhancement technique initially segments a noisy input time series, denoted $y(n)$ representing one of the six inertial sensor outputs, into smaller analysis windows that can be treated as stationary

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data. Each segment is modelled using FOS to extract the components of the motion dynamics from the noisy measurements.

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Of High Accuracy Inertial Navigation, Satellite-based Positioning and their Integration is an introduction to the field of Integrated Navigation Systems. It serves as an excellent reference for working engineers as well as textbook for beginners and students new to the area. The book is easy to read and understand with minimum background knowledge. The authors

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explain the derivations in great detail. The intermediate steps are thoroughly explained so that a beginner can easily follow the material. The book shows a step-by-step implementation of navigation algorithms and provides all the necessary details. It provides detailed illustrations for an easy comprehension. The

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book also demonstrates real field experiments and in-vehicle road test results with professional discussions and analysis. This work is unique in discussing the different INS/GPS integration schemes in an easy to understand and straightforward way. Those schemes include loosely vs tightly coupled, open loop vs

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closed loop, and many more.

This book covers all aspects of inertial navigation systems (INS), including the sensor technology and the estimation of instrument errors, as well as their integration with the Global Positioning

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System (GPS) for geodetic applications. Complete mathematical derivations are given. Both stabilized and strapdown mechanizations are treated in detail. Derived algorithms to process sensor data and a comprehensive explanation of the error dynamics provide not only an analytical

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understanding but also a practical implementation of the concepts. A self-contained description of GPS, with emphasis on kinematic applications, is one of the highlights in this book. The text is of interest to geodesists, including surveyors, mappers, and photogrammetrists; to engineers in aviation, navigation, guidance,

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transportation, and robotics; and to scientists involved in aerogeophysics and remote sensing.

Principles of Synthetic Aperture Radar Imaging: A System Simulation Approach demonstrates the use of image simulation for SAR. It covers the various applications of SAR

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of High Accuracy Inertial Navigation. This book covers radar-signal speckle, radar-signal models, sensor-trajectory models, SAR-image focusing, platform-motion compensation, and microwave-scattering from random media. While discussing SAR image focusing and motion compensation, it presents processing algorithms and applications that feature extraction, target

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of High Accuracy Inertial Navigation focuses on image formation or focusing, treats platform motion and image focusing, and is suitable for students, radar engineers, and microwave remote sensing researchers.

Explore an insightful summary of the major self-contained aiding technologies for pedestrian navigation

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from established and emerging leaders in the field Pedestrian Inertial Navigation with Self-Contained Aiding delivers a comprehensive and broad treatment of self-contained aiding techniques in pedestrian inertial navigation. The book combines an introduction to the general concept of navigation and major

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navigation and aiding techniques with more specific discussions of topics central to the field, as well as an exploration of the future of the future of the field: Ultimate Navigation Chip (uNavChip) technology. The most commonly used implementation of pedestrian inertial navigation, strapdown inertial navigation, is

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discussed at length, as are the mechanization, implementation, error analysis, and adaptivity of zero-velocity update aided inertial navigation algorithms. The book demonstrates the implementation of ultrasonic sensors, ultra-wide band (UWB) sensors, and magnetic sensors. Ranging techniques are

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considered as well, including both foot-to-foot ranging and inter-agent ranging, and learning algorithms, navigation with signals of opportunity, and cooperative localization are discussed. Readers will also benefit from the inclusion of: A thorough introduction to the general concept of navigation as well as

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treatment of the zero-velocity update (ZUPT) aided inertial navigation algorithm, including its mechanization, implementation, error analysis, and adaptivity. Perfect for students and researchers in the field who seek a broad understanding of the subject, *Pedestrian Inertial Navigation with Self-Contained Aiding*

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will also earn a place in the libraries of industrial researchers and industrial marketing analysts who need a self-contained summary of the foundational elements of the field.

An updated guide to GNSS and INS, and solutions to real-world GPS/INS problems with Kalman filtering Written

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by recognized authorities in the field, this second edition of a landmark work provides engineers, computer scientists, and others with a working familiarity with the theory and contemporary applications of Global Navigation Satellite Systems (GNSS), Inertial Navigational Systems (INS), and Kalman

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filters. Throughout, the focus is on solving real-world problems, with an emphasis on the effective use of state-of-the-art integration techniques for those systems, especially the application of Kalman filtering. To that end, the authors explore the various subtleties, common failures, and inherent limitations of the theory

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as it applies to real-world situations, and provide numerous detailed application examples and practice problems, including GNSS-aided INS, modeling of gyros and accelerometers, and SBAS and GBAS.

Drawing upon their many years of experience with GNSS, INS, and the Kalman filter, the authors present numerous design

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authors have included software in MATLAB, demonstrating the working of the GNSS, INS, and filter algorithms. In addition to showing the Kalman filter in action, the software also demonstrates various practical aspects of finite word length arithmetic and the need for alternative algorithms to preserve result

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Modern inertial sensors and systems cover more than five decades of continuous research and development involving various branches of science and engineering. Various technologies have emerged in an evolutionary manner surpassing the earlier ones in performance and

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reliability. The subject is still growing with proliferation in newer cost effective applications, while its wider usage in aerospace systems continues. This book exposes the readers to the subject of inertial navigation, the inertial sensors and inertial systems in a unified manner while emphasizing the growth

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areas in emerging technologies such as micro-electromechanical inertial sensors, satellite navigation, satellite navigation integrated inertial navigation, hemispherical resonator gyro, vibrating beam accelerometer, interferometric fibre optic gyro, inertial sensor signal processing, redundant inertial

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systems and the quite recent emergence of cold atom interferometer based inertial sensors.

The contents are imaginatively designed that will of interest to a wide spectrum of readers. The book has been written with utmost lucidity and clarity and explanations provided with a large number of illustrative figures.

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Besides being an ideal introduction to the principles of inertial sensors and systems for undergraduate and postgraduate students of aerospace engineering, the topics dealt with will also be of benefit to practising engineers and can assist the researchers to locate excellent references for research work. The authors have

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had three decades of design and application research experience in premier research institutions and have made use of their experience in giving a user-friendly shape to the book.

This book unifies all aspects of flight dynamics for the efficient development of

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Unlike other books, it
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