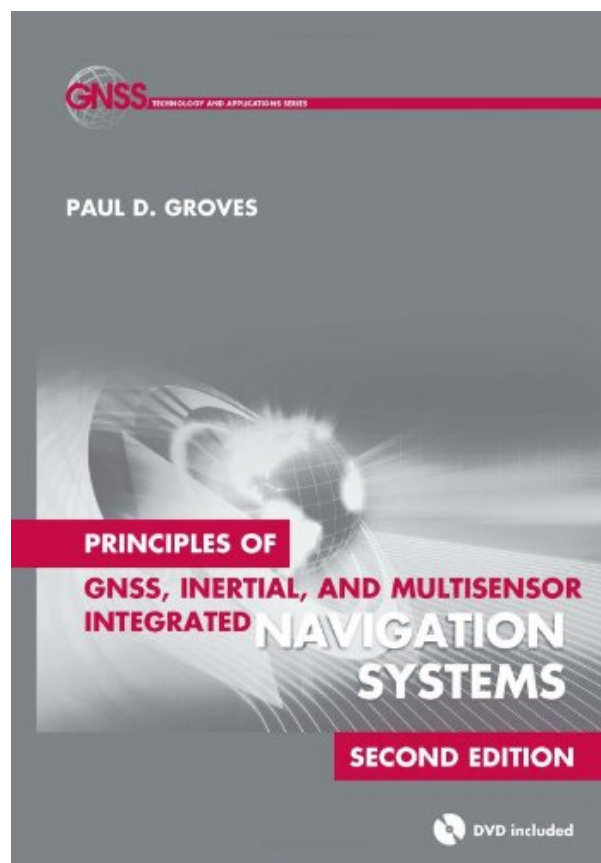


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PAUL D. GROVES

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About the Author

Paul D. Groves is a lecturer and academic faculty member at University College London (UCL), where he leads research into robust positioning and navigation within UCL's Space Geodesy and Navigation Laboratory. Previously, he was a scientist with QinetiQ, Ltd, specializing in navigation systems. Dr. Groves is a chartered physicist, a member of the Institute of Physics, a fellow of the Royal Institute of Navigation, and a member of the Institute of Navigation. He studied at the University of Oxford, where he earned a B.A., in physics, an M.A., and a D.Phil. in atomic and laser physics.

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This newly revised and greatly expanded edition of the popular Artech House book Principles of GNSS, Inertial, and Multisensor Integrated Navigation Systems offers you a current and comprehensive understanding of satellite navigation, inertial navigation, terrestrial radio navigation, dead reckoning, and environmental feature matching. It provides both an introduction to navigation systems and an in-depth treatment of INS/GNSS and multisensor integration. The second edition offers a wealth of added and updated material, including a brand new chapter on the principles of radio positioning and a chapter devoted to important applications in the field. Other updates include expanded treatments of map matching, image-based navigation, attitude determination, acoustic positioning, pedestrian navigation, advanced GNSS techniques, and several terrestrial and short-range radio positioning technologies.

The book shows you how satellite, inertial, and other navigation technologies work, and focuses on processing chains and error sources. In addition, you get a clear introduction to coordinate frames, multi-frame kinematics, Earth models, gravity, Kalman filtering, and nonlinear filtering. Providing solutions to common integration problems, the book describes and compares different integration architectures, and explains how to model different error sources. You get a broad and penetrating overview of current technology and are brought up to speed with the latest developments in the field, including context-dependent and cooperative positioning.

DVD Included! Features eleven appendices, interactive worked examples, basic GNSS and INS Matlab® simulation software, and problems and exercises to help you master the material.

Contents: Preface. Introduction. Co-ordinate Frames, Kinematics, And The Earth. Kalman Filter-Based Estimation. Inertial Sensors. Inertial Navigation. Dead Reckoning, Attitude, and Height Measurement. Principles of Radio Positioning. GNSS: Fundamentals, Signals, and Satellites. GNSS: User Equipment Processing and Errors. GNSS: Advanced Techniques. Long- and Medium-Range Radio Navigation. Short-Range Positioning. Environmental Feature Matching. INS/GNSS Integration. INS Alignment, Zero Updates, and Motion Constraints. Multisensor Integrated Navigation. Fault Detection, Integrity Monitoring, and Testing. Applications and Future Trends. List of Symbols. List of Acronyms and Abbreviations. About the Author. Index.

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About the Author

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9 of 9 people found the following review helpful.

Outstanding!

By Noel Zinn

I have finished this text cover to cover. It took a week, the first time I've been able to read an INS/GPS text kind front to back (and I have several). Dr. Groves doesn't skimp on the mathematics. He fills the gaps in the derivations that other texts leave unfilled. And he does it with a notation that is rigorous (considering the reference frames involved) and consistent from the beginning to the end. There is a 7-page, 350-entry List of Key Symbols (matrices, vectors, scalars, subscripts and superscripts, qualifiers), again consistent from beginning to end despite the range of topics covered. My point is that the reader isn't stumped mathematically getting from one section to another (though some page turning is required). And the range of topics? INS, GNSS and Kalman obviously, but also magnetics, gravity gradiometry, barometrics, depth, radar, odometry, pedestrian mounted IMUs, radio navigation, cell phones, SLAM, map matching, et cetera. This does make for a long book, however. Groves brings the same level of care and consistency to his Matlab scripts, which are worth several times the cost of the text. The Matlab corpus hangs together and appears to be the work of a single author, not that of a collection of disparate graduate students. And if you're not into Matlab, there are Excel spreadsheets that appear to cover much of the same ground. The mission of this text is not to exhibit the brilliance of the author, but to teach. And it succeeds brilliantly. I wish it was around when I started!

4 of 5 people found the following review helpful.

AN EXCELLENT NAVIGATION SYSTEMS RESOURCE!!

By COSMIC TRAVELER

Are you a professional engineer or scientist in industry, academia, and government? If you are, then this book is for you. Author Paul D. Groves (Author), has done an outstanding job of writing a second edition of a book that covers navigation of air, land, sea, underwater, and space vehicles, both piloted and autonomous, together with pedestrian navigation.

Author Groves, begins by introducing the basic concepts of navigation technology, compares the main technologies, and provides a qualitative overview of the material covered in the body of the book. Next, the author provides the mathematical and physical foundations of navigation. Then, he shows you how the Kalman filter may be adapted for practical use in navigation applications. In addition, the author describes the basic principles of accelerometer, gyro, and IMU technology, compares the different types of sensor, and reviews the error sources. He continues by focusing on the navigation processor. The author then describes commonly used dead-reckoning techniques other than inertial navigation, together with a number of techniques for measuring attitude, height, and depth. Next, he explains the physical principles of radio positioning and discusses the characteristics that are common across the different technologies, both spacebased and terrestrial. Then, he provides an introduction to satellite navigation and describes the satellite signals and orbits. In addition, he describes how GNSS user equipment processes the signals from the

satellites to obtain ranging measurements and then a navigation solution. The author continues by reviewing a number of techniques that enhance the accuracy, robustness, and reliability of GNSS. He then describes the main features of long- and medium-range radio positioning systems other than GNSS, and focuses mainly on self-positioning. Next, the author describes the main features of short-range radio positioning systems. Then, he describes position-fixing and dead-reckoning techniques based on environmental feature matching, including map matching, terrain-referenced navigation, and image-based navigation. In addition, the author focuses on INS/GNSS integration, covering the loosely coupled, tightly coupled, and deeply coupled integration architectures. He continues by describing INS alignment, the application of zero updates when the system is stationary, and context-dependent motion constraints. The author then covers multisensor integrated navigation, reviewing the different architectures and describing the integration of dead-reckoning, attitude, height, and position-fixing measurements. Next, he describes fault detection and integrity monitoring, including a summary of common failure modes, a review of the different methods of fault detection, a discussion of integrity certification. Finally, the author discusses how technology may be deployed to meet the requirements of a wide range of navigation applications and discusses future trends.

This most excellent book focuses on the physical principles on which navigation systems are based, how they generate a navigation solution, how they may be combined, the origins of the error sources, and their mitigation. The second edition of this great book provides the opportunity to devote more space to the underlying principles and explores more topics in detail.

2 of 2 people found the following review helpful.

Great book. It is comprehensive and the explanations are ...

By Sanjay Mishra

Great book. It is comprehensive and the explanations are crystal clear. The bibliography for each chapter is a great resource for venturing further. I hope Paul Groves continues to keep this book current. I appreciate the huge amount of work that he must put in each edition.

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