



Aided Navigation: GPS with High Rate Sensors

By Jay A. Farrell

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Design Cutting-Edge Aided Navigation Systems for Advanced Commercial & Military Applications

Aided Navigation is a design-oriented textbook and guide to building aided navigation systems for smart cars, precision farming vehicles, smart weapons, unmanned aircraft, mobile robots, and other advanced applications. The navigation guide contains two parts explaining the essential theory, concepts, and tools, as well as the methodology in aided navigation case studies with sufficient detail to serve as the basis for application-oriented analysis and design.

Filled with detailed illustrations and examples, this expert design tool takes you step-by-step through coordinate systems, deterministic and stochastic modeling, optimal estimation, and navigation system design. Authoritative and comprehensive, *Aided Navigation* features:

- End-of-chapter exercises throughout Part I
- In-depth case studies of aided navigation systems
- Numerous Matlab-based examples
- Appendices define notation, review linear algebra, and discuss GPS receiver interfacing
- Source code and sensor data to support examples is available through the publisher-supported website

Inside this Complete Guide to Designing Aided Navigation Systems

• Aided Navigation Theory: Introduction to Aided Navigation • Coordinate Systems • Deterministic Modeling • Stochastic Modeling • Optimal Estimation • Navigation System Design • Navigation Case Studies: Global Positioning System (GPS) • GPS-Aided Encoder • Attitude and Heading Reference System • GPS-Aided Inertial Navigation System (INS) • Acoustic Ranging and Doppler-Aided INS

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Editorial Review

About the Author

About the Author Jay A. Farrell, Ph.D., is a Professor and former Chair of the Department of Electrical Engineering at the University of California, Riverside. Dr. Farrell is the author of over 150 technical publications, as well as co-author of the books, *Adaptive Approximation Based Control: Unifying Neural, Fuzzy and Traditional Adaptive Approximation Approaches* and *McGraw-Hill's The Global Positioning System and Inertial Navigation*.

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