



# The Global Positioning System & Inertial Navigation

By Jay Farrell, Jay A. Farrell

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With GPS and INS hardware becoming ever smaller and less expensive, innovative opportunities for commercial navigation systems are everywhere—and continue to arise. Integrated GPS/INS systems have some real advantages, in terms of output rate, reliability, and accuracy. The Global Positioning System and Inertial Navigation is the first-ever reference to provide engineers and scientists with a detailed, top-to-bottom look at GPS and INS in a single volume.

This in-depth text provides navigation system designers comprehensive and accurate coverage of such topics as coordinate frames and transformations, Kalman filtering techniques, navigation system performance analysis, GPS receiver ephemeris and pseudo-range processing, differential GPS, carrier phase processing, and attitude determination. Extensively cross-referenced to the literature on advanced navigation system design, this superb engineering reference is ideal for navigation systems designers, analysts, and project managers.

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With GPS and INS hardware becoming ever smaller and less expensive, innovative opportunities for commercial, military, and scientific navigation systems are everywhere and continue to arise. Integrated GPS/INS systems have some real advantages, in terms of output rate, reliability, and accuracy. The Global Positioning System and Inertial Navigation is the first-ever reference to provide engineers and scientists with a detailed, top-to-bottom look at GPS and INS in a single volume.

Features include: Integrated practical examples; In-depth case studies; Detailed theoretical derivations; Guidelines for building integrated GPS/INS systems; Advanced GPS and INS techniques presented in a unifying format; Comparison of alternative implementation techniques; A systematic engineering design approach. This in-depth text provides navigation system designers comprehensive and accurate coverage of such topics as coordinate frames and transformations...Kalman filtering techniques...navigation system performance analysis...GPS receiver ephemeris and pseudo-range processing... differential GPS, carrier phase processing, and attitude determination. Extensively cross-referenced to the literature on advanced navigation system design, this superb engineering reference is ideal for navigation systems designers, analysts, and project managers.

About the Author

Jay A. Farrell (Riverside, CA) is Professor of Electrical Engineering at the University of California, Riverside.

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