



GPS Satellite Surveying, 2nd Edition

By Alfred Leick

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GPS Satellite Surveying, Second Edition, includes all the material that made the first edition the standard work on the subject and provides up-to-date information on the most recent developments. Comprehensive and thorough in its presentation, GPS Satellite Surveying is designed to help the modern land information specialist gain full use of GPS surveying techniques and a firm understanding of the resulting measurements. The range of its coverage includes:

- * Complete and mathematically rigorous theory of positioning with GPS that integrates astronomy, time, statistics, geodesy, and electronics
- * Explanation of the geodetic foundations of GPS positioning
- * Latest techniques of GPS positioning, such as ambiguity fixing on-the-fly (OTF) and rapid static
- * Differential GPS (DGPS), with applications for aircraft navigation
- * Full treatment of least-squares adjustment, including an extended discussion of the reliability of geodetic networks-material found in no other text
- * Emphasis on elements common to surveying and precise navigation in order to provide a unified-theory perspective on GPS positioning

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Editorial Review

Review

"...third edition...reinforces its status as a standard industry reference...updated to cover emerging precise-point position technology..." (*GEO Connexion*, June 2004)

From the Publisher

The global positioning system (GPS) is a satellite based tool used by surveyors and the navigation community. This edition includes coverage of the latest advances in receiver technology and GPS signal structure. It also provides more up-to-date information on the state-of-the-art in GPS as applied to surveying and explores the technologies and techniques leading to the convergence of navigation and surveying.

From the Inside Flap

GPS Satellite Surveying With the advent of the Global Positioning System (GPS), a new age has dawned for surveying and navigation. Using a network of orbiting satellites, GPS now makes it possible for ground-based technicians with hand-held monitors to determine their positions with a degree of precision previously unachievable by traditional surveying methods. GPS has the potential to revolutionize the entire practice of surveying, to give increased significance to the numerical records of surveyors, and to make available to many practicing surveyors measurement techniques that until recently were available to very few. To meet the needs of surveyors, engineers, and others for the latest, most complete information on this breakthrough technology, Alfred Leick has updated his classic introduction to the field. GPS Satellite Surveying, Second Edition, includes all the material that made the first edition the standard work on the subject and provides up-to-date information on the most recent developments. Comprehensive and thorough in its presentation, GPS Satellite Surveying is designed to help the modern land information specialist gain full use of GPS surveying techniques and a firm understanding of the resulting measurements. The range of its coverage includes:

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Sherri King:

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