GPS: Theory, Algorithms and Applications

By Guochang Xu

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This, the second edition of the hugely practical reference and handbook describes kinematic, static and dynamic Global Positioning System theory and applications. It is primarily based upon source-code descriptions of the KSGSoft program developed by the author and his colleagues and used in the AGMASCO project of the EU. This is the first book to report the unified GPS data processing method and algorithm that uses equations for selectively eliminated equivalent observations.

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Editorial Review

Review

Aus den Rezensionen zur 2 Auflage:

"… eine umfassend überarbeitete und ergänzte Version … Xu verfolgt das Ziel, dem Leser detaillierte lnformationen zur Auswertung von GNSS-Daten nahezubringen, die für eine praktische Software-Entwicklung relevant sind. … Das Buch gliedert sich in … 12 Kapitel, wobei die … Kapitel mit einer sehr klaren Erläuterung eingeführt werden, die dem Leser die Konzepte der Kapitel und Zusammenhänge mit anderen Abschnitten … vermitteln. … Die Darstellung der Formeln und Gleichungen sind gut lesbar und ermöglichen prinzipiell eine … Umsetzung in Software-Algorithmen. … Das Buch wird ergänzt durch eine … umfangreiche Literaturliste …" (Jörg Reinking, in: zfv - Zeitschrift für Geodäsie, Geoinformation und Landmanagement, 2009, Vol. 134, Issue 2, S. 122 f.)

From the Back Cover

This reference and handbook describes Global Positioning System (GPS) theory, algorithms and applications. It is primarily based upon source-code descriptions of the KSGSoft program developed by author at the GFZ in Potsdam. The theory and algorithms are revised and extended for a new development of a multiple functional GPS software. New concepts such as the unified GPS data processing method and ambiguity-ionospheric algorithm, as well as general ambiguity search criteria, are reported for the first time. Mathematically rigorous, the book begins with the basics of coordinate and time systems and satellite orbits, as well as GPS observables, and deals with topics such as physical influences, observation equations, adjustment and filtering, ambiguity resolution, data processing, kinematic positioning, and the determination of perturbed orbits.

About the Author

Guochang Xu graduated in mathematics and geodesy from Wuhan University and the Chinese Academy of Sciences (CAS) in 1982 and 1984 respectively. He obtained his doctorate from the Technical University Berlin in 1992. Having worked as a scientist at the GeoForschungsZentrum (GFZ) Potsdam from 1993 to 1998 and as a senior scientist at the National Survey and Cadastre, Denmark, from 1998 to 1999, he returned to the GFZ as a senior scientist in 1999. He has been involved in GPS research since 1993 and has authored and co-authored several books and software. He is also an overseas assessor of CAS and the Chinese Education Ministry and an adjunct professor of ChangAn University and CAS.

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