



## GPS for Geodesy

By Teunissen, Peter J.G. / Kleusberg, Alfred

Condition: New. Publisher/Verlag: Springer, Berlin | An in-depth description of the theory and mathematical models behind the application of the global positioning system in geodesy and geodynamics. The contributions by leading experts in the field ensure a continuous flow of ideas and developments. The mathematical models for GPS measurements are developed in the first half of the book, and these are followed by GPS solutions for geodetic applications on local, regional and global scales. "GPS for Geodesy" describes the use of Global Positioning System (GPS) measurements for geodetic applications. It covers the modelling and data processing strategies needed for the determination of precise coordinates for position and the monitoring of temporal changes of these coordinates in well-defined reference systems. Starting from the GPS observables, the GPS orbits, the reference frames and the GPS signal propagation characteristics, complete observation equations are presented and discussed for the spectrum of geodetic applications. Models for single-receiver applications are followed by models for multi-receiver applications for which the network scale is used as the criterion. It includes the theory of GPS ambiguity resolution, the contribution of GPS to atmospheric modelling and the use of GPS for geodynamic applications. | 1 Reference Systems.- 1.1 Introduction.- 1.2...



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