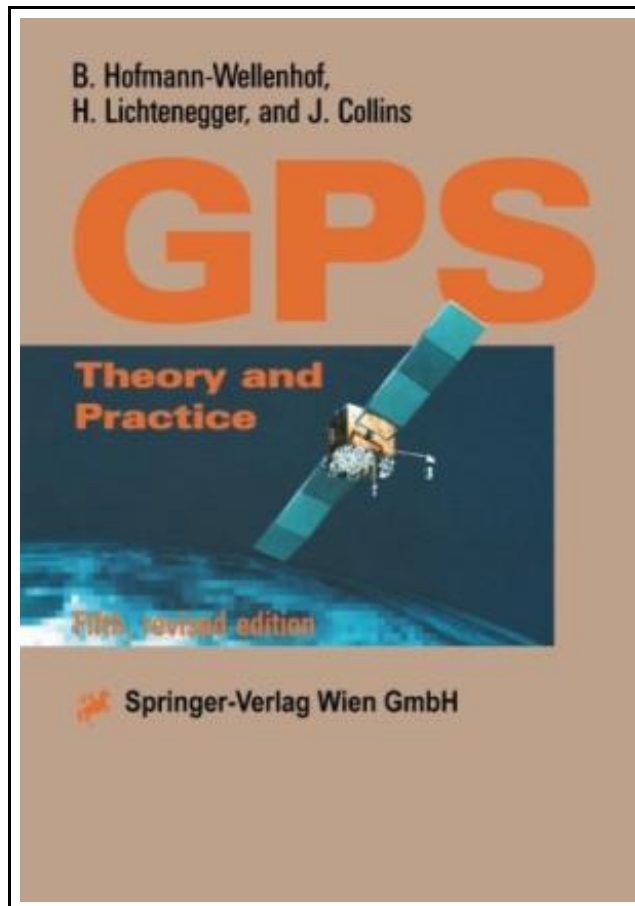


Global Positioning System (GPS)



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GLOBAL POSITIONING SYSTEM (GPS)



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Book Condition: New. Publisher/Verlag: Springer, Wien | Theory and Practice | This edition accommodates the most recent advances in GPS technology. Updated or new information has been included although the overall structure essentially conforms to the former editions. The textbook explains in comprehensive manner the concepts of GPS as well as the latest applications in surveying and navigation. Description of project planning, observation, and data processing is provided for novice GPS users. Special emphasis is put on the modernization of GPS covering the new signal structure and improvements in the space and the control segment. Furthermore, the augmentation of GPS by satellite-based and ground-based systems leading to future Global Navigation Satellite Systems (GNSS) is discussed. | 1 Introduction.- 1.1 The origins of surveying.- 1.2 Development of global surveying techniques.- 1.2.1 Optical global triangulation.- 1.2.2 Electromagnetic global trilateration.- 1.3 History of the Global Positioning System.- 1.3.1 Navigating with GPS.- 1.3.2 Surveying with GPS.- 2 Overview of GPS.- 2.1 Basic concept.- 2.2 Space segment.- 2.2.1 Constellation.- 2.2.2 Satellites.- 2.2.3 Operational capabilities.- 2.2.4 Denial of accuracy and access.- 2.3 Control segment.- 2.3.1 Master control station.- 2.3.2 Monitor stations.- 2.3.3 Ground control stations.- 2.4 User segment.- 2.4.1 User categories.- 2.4.2 Receiver types.- 2.4.3 Information services.- 3 Reference systems.- 3.1 Introduction.- 3.2 Coordinate systems.- 3.2.1 Definitions.- 3.2.2 Transformations.- 3.3 Time systems.- 3.3.1 Definitions.- 3.3.2 Conversions.- 3.3.3 Calendar.- 4 Satellite orbits.- 4.1 Introduction.- 4.2 Orbit description.- 4.2.1 Keplerian motion.- 4.2.2 Perturbed motion.- 4.2.3 Disturbing accelerations.- 4.3 Orbit determination.- 4.3.1 Keplerian orbit.- 4.3.2 Perturbed orbit.- 4.4 Orbit dissemination.- 4.4.1 Tracking networks.- 4.4.2 Ephemerides.- 5 Satellite signal.- 5.1 Signal structure.- 5.1.1 Physical fundamentals.- 5.1.2 Components of the signal.- 5.2 Signal processing.- 5.2.1 Receiver design.- 5.2.2 Processing techniques.- 6 Observables.- 6.1 Data acquisition.- 6.1.1 Code pseudoranges.- 6.1.2 Phase pseudoranges.- 6.1.3 Doppler data.- 6.1.4 Biases and noise.- 6.2 Data combinations.-...



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