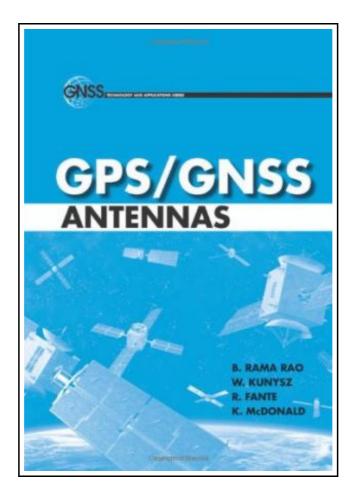
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Reviews

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Artech House Publishers. Hardback. Book Condition: new. BRAND NEW, GPS/GNSS Antennas, B. Rama Rao, W. Kunysz, K. McDonald, Focusing on three principal systems - GPS, GALILEO, and GLONAS - this practical resource provides a thorough treatment of GNSS antennas. The book presents a number of key applications, describing corresponding receiver architectures and antenna details. You find important discussions on antenna characteristics, including theory of operation, gain, bandwidth, polarization, phase center, mutual coupling effects, and integration with active components. The book offers expert guidance on the key considerations that effect GNSS antenna performance. This unique reference also considers various augmentation systems, such as the U.S. Wide Area Augmentation System (WAAS) and the European Geostationary Navigation Overlay Service (EGNOS). Addressing critical GNSS antenna requirements, this in-depth book explains the relationships between antenna gain, satellite visibility, geometric dilution of precision, and the carrier-to-noise density ratio. The book delineates requirements for both dual-band and tri-band antennas. You get detailed coverage of a wide range of antenna designs, including microstrip patch, quadrafilar helix, axial mode helix, spiral, inverted L, and planar inverted F antennas. Moreover, you find a discussion on new magnetic "metamaterial" substrates and other dielectric substrate materials. Further, this comprehensive book presents designs for very compact GNSS antennas for PCS, PDAs, and automobiles. From multipath limiting antennas, multiple element array designs for reducing interference, and multi-system multi-band antenna design, to GNSS antenna measurement characteristics, cosite interference, and adaptive antenna arrays and anti-jam signal processing techniques, this unique volume offers one-stop coverage of this increasingly important area of GNSS technology.

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