



GPS/GNSS Antennas (GNSS Technology and Applications)

By B. Rama Rao, W. Kunysz, R. Fante, K. McDonald

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This practical resource offers you the newest and most comprehensive treatment available of GPS/GNSS antennas, taking into account the requirements of modernized systems and recent and developing applications. The book considers a number of key applications and describes corresponding 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.

Moreover, you get expert guidance on the design of adaptive arrays and signal processing techniques used to mitigate interference such as jamming. Addressing critical GNSS antenna high precision 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. Included is a discussion on new magnetic metamaterial substrates and other dielectric substrate materials. Further, this comprehensive book presents designs for very compact GNSS antennas for personal handheld devices and automobiles.

Contents: Introduction to GNSS Antenna Performance Parameters. Fixed Reception Pattern Antennas (FRPA) and Directional Antennas. Multiband, Handset and Active Global Navigation Satellite Systems (GNSS) Antennas. Adaptive GPS Antennas. Ground Plane, Aircraft Fuselage, and other Platform Effects on GPS Antennas. Measurement of the Characteristics of GNSS Antennas. Antennas and Site Considerations for Precise Applications.



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Editorial Review

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B. Rama Rao is a principal engineer at the MITRE Corporation. He received his Ph.D. in applied physics from Harvard University. W. Kunysz works for Nov Atel, Inc. An inventor of six patents, he holds a Master of Nautical Sciences degree from Gdynia Maritime University in Poland. R. Fante held various engineering positions at Avco Corporation, the U.S. Air Force, Textron Corporation, and most recently at the MITRE Corporation. He received his Ph.D. in electrical engineering from Princeton University. K. McDonald is the lead signal processing engineer at the MITRE Corporation. He holds a Ph.D. in electrical engineering from Lehigh University.

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