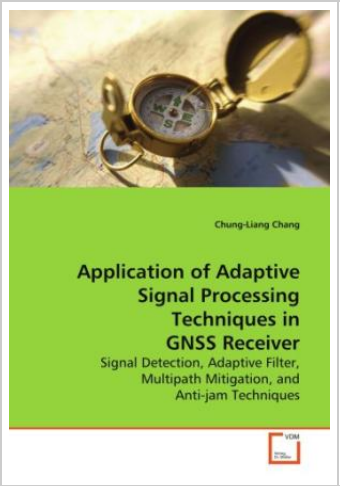

Application of Adaptive Signal Processing Techniques in GNSS Receiver

By Chang, Chung-Liang

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Signal Detection, Adaptive Filter, Multipath Mitigation, and Anti-jam Techniques | With the growing demand for positioning in many military and civilian applications,there is an increasing requirement to enhance the performance of Global PositioningSystems (GPS) receivers. Adaptive signal processing is an enabling technology that iscapable of addressing problems related to signal blanking, detection, multipath andinterference mitigation. In this book, an adaptive signal processing technique isutilized to account for the effect due to satellite signal discontinuity, multipath andinterference. In air navigation, the rotation of aircraft results in discontinuous tracking of GPS signal.To solve this problem, a ring-type antenna array is used to prevent signal discontinuity and ahypothesis-test based detection scheme is developed so that the correct antennacombination can be formed to provide uninterrupted reception of GPS signals in thepresence of blanking, noise, and interferences.The dissertation also analyzes the spatial-temporal adaptive processing (STAP) performance ofvarious type antenna array configurations in interference environment. At last, a modified adaptive filter is utilized as solution for multipath mitigation. | Format: Paperback | Language/Sprache: english | 175 gr | 220x150x6 mm | 120 pp.

Reviews

This book will never be easy to start on looking at but quite entertaining to read. It is actually packed with wisdom and knowledge It is extremely difficult to leave it before concluding, once you begin to read the book.

-- ***Ms. Missouri Satterfield DVM***

This pdf can be worthy of a read, and much better than other. I am quite late in start reading this one, but better then never. Its been printed in an remarkably easy way which is merely following i finished reading this book by which basically changed me, alter the way i think.

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