



Navigation Signal Processing for Gnss Software Receivers (Artech House Gnss Technology and Applications)

By Thomas Pany

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The advancement of software radio technology has provided an opportunity for the design of performance-enhanced GNSS/GPS receivers that are more flexible and easier to develop than their FPGA or ASIC based counterparts. Filling a gap in the current literature on the subject, this highly practical resource offers engineers an in-depth understanding of navigation signal detection and estimation algorithms and their implementation in a software radio. This unique book focuses on high precision applications for GNSS signals and an innovative RTK receiver concept based on difference correlators. CD-ROM Included! It contains time-savings, ready-to-use signal estimation and detection algorithms that engineers can quickly apply to their specific receiver development projects.

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Editorial Review

About the Author

Thomas Pany is a senior research engineer at IFEN GmbH in Germany, a company that is heavily involved building the Galileo system including GNSS receivers. He received a Ph.D. from the Graz University of Technology in Austria for his work on modeling GPS and synthetic aperture radar signal propagation within the troposphere. Dr. Pany has authored over hundred papers in the field of positioning, GNSS receivers, Galileo signal structure and GPS science.

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