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A METHOD OF MULTIPLE ACCESS INTERFERENCE SUPPRESSION FOR SPREAD SPECTRUM
RECEIVERS BASED ON MULTI-CORRELATION PEAK DETECTION**Abstract**

This article describes the difference between auto correlation and cross correlation of direct sequence spread spectrum (DSSS) signals. According to the characteristics of cross correlation, a method of multiple access interference (MAI) suppression based on multi-correlation peak detection is proposed. This article provides a function block diagram, simulation curves, and specific realization processes. By using this method, the anticipated pseudo-random number (PRN) sequence can be captured and tracked successfully, even if the power of multiple access interference is higher by 15dB than that of useful signals.