

Abstract

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Ultra Wideband Systems and Modulation Techniques Using Different Gaussian Monopulse Waveforms

This paper covers Ultra Wideband (UWB) technology. General description, implementation issues, and applications are covered. Different proposed modulation techniques namely TH-PPM, TH-BPSK and TH-OOK are described along with some mathematical models and simulation results. Moreover, the temporal mathematical representations of several monopulse signals are illustrated, and their power spectral densities are presented.