

# **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.