Abstracts

Sensitivity Analysis of a 15.0 GHz Monopulse Radar Receiver Using a Logarithmic Amplifier Detector Scheme

G.W. Stilwell, A.M. Madni and L.A. Wan. "Sensitivity Analysis of a 15.0 GHz Monopulse Radar Receiver Using a Logarithmic Amplifier Detector Scheme." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 200-203.

Sensitivity analysis of a 15.0 GHz monopulse radar receiver using logarithmic amplifiers as the detection scheme is presented. The effects of receiver gain, noise figure, bandwidth, and phase and amplitude balance on system tracking performance are discussed. Special emphasis is given to the influence of noise on tracking sensitivity. A brief overview of the system as well as actual test results are included.

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