

AN EXPERIMENTAL EVALUATION OF ADAPTIVE RADAR

Fred M. Staudaher
Naval Research Laboratory
Washington, D. C. 20375

Abstract

An experimental system to test the potential performance of a two-pulse, four-element adaptive array has been constructed, using two four-element arrays to represent the receiver function and 8 signal sources distributed in azimuth to represent clutter. Results are reported on tests which are in progress to evaluate the limitations of mutual coupling, receiver match, A/D conversion, and simulated platform motion.