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Title *Probe Suppression of Wideband Hostile Sources for Active RCS Reduction*

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Abstract

Phased arrays and their role in interference suppression have attracted the attention of researchers all over the world in last five decades. Studies have been carried out not only for narrowband hostile sources but also for the sources that are distributed over few spectral lines. In the present report, the earlier study on the sidelobe cancellers has been extended for the suppression of wideband hostile sources. Various distributions of probing sources such as widely distributed sources and closely spaced sources have been considered for standard LMS algorithm based simulations. The effect of increasing the number of array elements has also been analyzed, particularly for narrowband probing sources.