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Title *Scheme for Suppression of Narrowband Probing Sources for Active RCS Reduction*

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Abstract

Decision feedback generalized sidelobe cancellers (DF-GSC) requires some initial training snapshots, which are difficult to acquire in practical situations. One of the remedies to avoid this is to include blind equalizer in DF-GSC. Blind DF-GSC gives better results as compared to normal DF-GSC. In order to further enhance its interference suppression capabilities, improved LMS algorithm was used to carry out the simulations. A steady state analysis was performed for both normal DF-GSC and blind DF-GSC and comparative studies were carried out for the steady state analysis with standard and structured LMS algorithms. Furthermore, effect of various parameters on the speed of response was also analyzed.