

عنوان مقاله:

Minimizing Broadside Back Scattering from Single, Finite and Infinite Arrays of Straight Wire Scatterers Based on (Finite Element Method (FEM

محل انتشار:

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خلاصه مقاله:

In this paper, in order to minimize broadside radar cross section (RCS) from single, finite and infinite arrays of straight wire scatterers, optimum load impedances are extracted. The analyses are based on finite element method (FEM) in High Frequency Structure Simulator (HFSS). The simulation results show that the extracted optimum load impedance for single wire scatterer can be used for finite and infinite arrays of straight wire scatterers approximately. The value of RCS for single, finite and infinite array of straight wire scatterers are respectively -35 , -29 , and -36 dB in strong coupling region, while they are -35 , -28 , and -35 dB in weak coupling region

کلمات کلیدی:

wire scatterer, FEM, RCS, optimum load

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