

English Abstract

Null steering in the phased arrays is investigated using phase only perturbations in uniform and non uniform linear arrays. Genetic algorithm is used to achieve the desired array pattern with optimum phase variations of the individual elements. The array performance for 8 and 20 element arrays is investigated for different scanning angles of the main beam and also for different spacings between the elements of the array. The implementation of the feed network for a typical array of microstrip elements is designed and the array factor is simulated.