

عنوان مقاله:

Analytical Formulation of Triangular Grid Hexagonal Aperture Phased Array Antenna with Arbitrary Number of Elements

محل انتشار:

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خلاصه مقاله:

Simple mathematical analysis of Triangular Grid Hexagonal Aperture Phased Antenna based on vector analysis is presented. This analysis is used to get on a method to model this configuration, Array Factor, beam steering and grating lobe diagram expression. The correctness of this model is shown by using it for an array with arbitrary number of elements. The best feature of this method is a simple implementation of beam steering and grating lobe diagram, simultaneously.

کلمات کلیدی:

Beam steering; Grating Lobe Diagram; Hexagonal Aperture Antenna; Triangular Grid

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