



Design of Conical TEM feed for an Impulse Radiating Antenna: An applied microwave engineering simulation. Used MATLAB and IE3D softwares. Work carried out at center of excellence,OU

M.L.N. Acharyulu, N. S. Murthy Sarma, Prasanna Rajan

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The far field pattern properties that are of most frequent concern to the array designer are the array sidelobe level, array gain and beamwidth. All these properties depend on the amplitude and phase excitation to the array of elements. The Adaptive antennas have the ability; to automatically respond to an unknown interference environment by steering the main beam in the desired direction, by steering the nulls and reducing sidelobe level in the direction of interference. They consists of an array of antenna elements and an adaptive receiver- processor which adjusts its element and an adaptive receiver-processor which adjusts its element weights toward some optimization of output SNR. In this dissertation , the pattern of an array will be easily controlled by adjusting the weights by a simple adaptive technique based on the LMS algorithm and Numerical pattern synthesis algorithm that controls the sidelobes. The obtained weights from MATLAB will be utilized in Electro Magnetic Simulation Software IE3D and the results of both softwares will be compared. This dissertation is introduced in current book. It is well validated by publications from international journals.

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