Abstracts

Floquet-Based FDTD Analysis of Two-Dimensional Phased Array Antennas

J. Ren, O.P. Gandhi, L.R. Walker, J. Fraschilla and C.R. Boerman. "Floquet-Based FDTD Analysis of Two-Dimensional Phased Array Antennas." 1994 Microwave and Guided Wave Letters 4.4 (Apr. 1994 [MGWL]): 109-111.

The finite-difference time-domain method with Floquet boundary conditions has been used to calculate the radiation characteristics of one- and two-dimensional phased array antennas for different scan angles in E- and H-planes. Considerable savings in computer memory and computation time are realized since only the central 3 elements for a 1-D array and 3 x 3 elements for a 2-D array are to be modeled.

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