Abstracts

A Transverse Slot in the Broad Wall of Inhomogeneously Loaded Rectangular Waveguide for Array Applications

J. Joubert. "A Transverse Slot in the Broad Wall of Inhomogeneously Loaded Rectangular Waveguide for Array Applications." 1995 Microwave and Guided Wave Letters 5.2 (Feb. 1995 [MGWL]): 37-39.

The self-properties of transverse slots in the broad wall of inhomogeneously loaded rectangular waveguide are computed using an integral equation moment method formulation, and compared to measured values. Results are also presented which show that transverse slots in inhomogeneously loaded rectangular waveguide can be used for antenna arrays which will not have grating lobes in their radiation patterns, and will not suffer from the same distribution taper limitations as similar arrays of homogeneous waveguide transverse slots.

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