

Abstracts

Taking Into Account the Edge Condition in the Problem of Diffraction Waves on Step Discontinuity in Plate Waveguide (Short Papers)

V.P. Lyapin, V.S. Mikhalevsky and G.P. Sinyavsky. "Taking Into Account the Edge Condition in the Problem of Diffraction Waves on Step Discontinuity in Plate Waveguide (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.7 (Jul. 1982 [T-MTT] (Joint Special Issue on GaAs IC's)): 1107-1109.

A way of improving the convergence of the field-matching method by means of taking into account the edge conditions is proposed. The unknown function, as defined on the matting lines, should be expanded into an infinite set of the orthogonal Gegenbauer polynomials having the required singularity.

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