Abstracts

Wave Propagation in a Periodic Microstrip Line on a Multilayered Anisotropic Substrate

I.S. Nefedov. "Wave Propagation in a Periodic Microstrip Line on a Multilayered Anisotropic Substrate." 1996 Microwave and Guided Wave Letters 6.11 (Nov. 1996 [MGWL]): 416-418.

An efficient spectral domain full-wave algorithm based on 4 x 4 transfer matrix and integral equation method is developed for the periodic microstrip line on the multilayered anisotropic substrate. The substrate may consists of arbitrary number of layers whose permittivity and permeability are tensors of general form. It is shown, that in some cases, the quasistatic approach for calculations of characteristics of the dominant mode may be invalid even at very small frequencies. The method may be used for simulation of integrated circuits, which include anisotropic layers.

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