Abstracts

A New Frequency Domain Symmetrical Condensed TLM Node

P. Berini and K. Wu. "A New Frequency Domain Symmetrical Condensed TLM Node." 1994 Microwave and Guided Wave Letters 4.6 (Jun. 1994 [MGWL]): 180-182.

This paper reports the development of a new symmetrical condensed TLM node derived directly in the frequency domain. The new node can accommodate a graded mesh and can model lossy anisotropic media described by a static conductivity tensor along with complex permittivity and complex permeability tensors. The frequency domain TLM method is used to generate modal dispersion curves for m Wave and mm Wave guiding structures. The results compare the new node to existing time domain symmetrical condensed nodes.

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