

Abstracts

A New Edge Element Analysis of Dispersive Waveguiding Structures (Comments)

F.A. Fernandez and Y. Lu. "A New Edge Element Analysis of Dispersive Waveguiding Structures (Comments)." 1996 Transactions on Microwave Theory and Techniques 44.9 (Sep. 1996 [T-MTT]): 1618-1619.

In a recent paper the authors state that the methods described in [1] and [2] (their references [12] and [13]), "cannot be directly applied to transmission lines with finite thickness and finite conductivity because of the appearance of spurious modes." This is completely erroneous. No spurious modes appear when using the transverse field formulation implemented with node-based or edge FE when applied to transmission lines with finite thickness and finite conductivity or indeed to any other waveguide (bounded or open-bounded).

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