

Abstracts

Numerical Errors in the Computation of Impedances by FDTD Method and Ways to Eliminate Them (Comments)

N. Dib, M. Krumpholz, E. Tentzeris and L.P.B. Katehi. "Numerical Errors in the Computation of Impedances by FDTD Method and Ways to Eliminate Them (Comments)." 1995 Microwave and Guided Wave Letters 5.10 (Oct. 1995 [MGWL]): 354-355.

In the above paper, a new formula for the calculation of the characteristic impedance of transmission lines, $Z_{\text{sub } 0}$, using the FDTD method has been given. This formula eliminates the numerical errors due to the offset of voltages and currents in space and time. We have recalculated the two examples given in the above paper and confirmed the presented results.

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