

Abstracts

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

J. Fang and D. Xeu. "Numerical Errors in the Computation of Impedances by FDTD Method and Ways to Eliminate Them." 1995 Microwave and Guided Wave Letters 5.1 (Jan. 1995 [MGWL]): 6-8.

This paper presents the numerical errors in the computation of impedances by FDTD method. As shown by examples of the paper, substantial numerical errors can be introduced due to the spatial and time offsets of voltages and currents calculated from corresponding field variables in FDTD computations. An impedance calculation formula that completely eliminates such error is also presented.

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