

Abstracts

Reducing Solution Time in Monochromatic FDTD Waveguide Simulations (Short Papers)

D.T. Prescott and N.V. Shuley. "Reducing Solution Time in Monochromatic FDTD Waveguide Simulations (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.8 (Aug. 1994 [T-MTT]): 1582-1584.

Rectangular waveguide is modelled using the Finite-Difference Time-Domain Method. It is shown that when using a monochromatic excitation that the steady state solution can take an undue amount of time to achieve. A simple technique is presented which minimises the duration of the resulting transient time enabling the steady state to be reached in a much shorter amount of time.

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