Abstracts

Compact Two-Dimensional FD-TD Analysis of Attenuation Properties of Lossy Microstrip Lines

M. Fujii and S. Kobayashi. "Compact Two-Dimensional FD-TD Analysis of Attenuation Properties of Lossy Microstrip Lines." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 797-800.

A compact two-dimensional FDTD (2-D FDTD) algorithm has been applied to the analysis of propagation properties of lossy microstrip lines. The electromagnetic field in the conductors are analyzed by forming grids inside the conductors to consider the conductor loss of microstrip lines. Furthermore, the autoregressive (AR) signal analysis method is combined to obtain accurate propagation constants, and good agreement between computational and experimental results is obtained.

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