

Abstracts

Time-Domain Finite Difference Approach to the Calculation of the Frequency-Dependent Characteristics of Microstrip Discontinuities

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The frequency-dependent characteristics of the microstrip discontinuities have previously been analyzed using several full-wave approaches. The time-domain finite difference (TD-FD) method presented in this paper is another independent approach and is relatively new in its application for obtaining the frequency-domain results for microwave components. The purpose of this paper is to establish the validity of the TD-FD method in modeling circuit components for MMIC CAD applications.

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