Abstracts

New Method for the Characteristics Analysis of Dispersion of Various Planar Transmission Lines with Finite Metallization Thickness

It is shown that the eigen-function weighted boundary integral equation method can be extended to analyze the dispersion characteristics of various planar transmission lines with finite metallization thickness, such as microstrip lines, conductor-backed coplanar waveguides, and micro-coplanar strip lines. The computational results clearly demonstrate the effect of finite strip thickness on the propagation properties of these transmission lines for MMIC's.

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