Abstracts

A Frequency-Dependent Basis Function Applied to Microstrip (Short Papers)

C. Hechtman, H. Zmuda and D. Gabbay. "A Frequency-Dependent Basis Function Applied to Microstrip (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.5 (May 1991 [T-MTT] (Special Issue on Directions in Design and Applications of Microwave Systems)): 893-896.

Spheroidal wave functions and the spectral-domain method are used to compute the effective dielectric constant for microstrip. A single-term expansion for the vector current density provides excellent results over a broad spectrum (1-100 GHz). Numerical results compare favorably with other commonly used techniques.

❑ Return to main document.