Abstracts

Capacitance Computation of Elliptic Microstrip Disks in Biaxial Anisotropic Multilayered Substrates

R.R. Boix and M. Horno. "Capacitance Computation of Elliptic Microstrip Disks in Biaxial Anisotropic Multilayered Substrates." 1990 Transactions on Microwave Theory and Techniques 38.1 (Jan. 1990 [T-MTT]): 30-37.

Variational technique in the spectral domain are used to develop an algorithm which calculates a lower bound of the capacitance of a conductor elliptic disk embedded in a lossless multilayered substrate with arbitrary dielectric anisotropy. This algorithm is intended to be a useful tool for lumped element design in MMIC applications. The calculation method is shown to be general, quick, and accurate when implemented in a computer program. Numerical results are given to demonstrate the efficiency of the algorithm.

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