

Abstracts

A Uniform Asymptotic Expansion for the Green's Functions Used in Microstrip Calculations (Short Papers)

J.M. Dunn. "A Uniform Asymptotic Expansion for the Green's Functions Used in Microstrip Calculations (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.7 (Jul. 1991 [T-MTT]): 1223-1226.

A uniform asymptotic approximation is developed in the limit of small substrate thickness for the Green's functions used in microstrip-type problems. The approximation is valid for a single-layer substrate. The expansions agree with near and far-field results previously published in the literature. Comparison of the approximation is made with numerical evaluations of the exact integral solution available for the problem.

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