

Abstracts

A Unified Variational Solution to Microstrip Array Problems

V. Rizzoli. "A Unified Variational Solution to Microstrip Array Problems." 1975 Transactions on Microwave Theory and Techniques 23.2 (Feb. 1975 [T-MTT]): 223-234.

A very general variational procedure is used to compute single or coupled microstrips under the quasi-TEM approximation. The capacitance model is found by means of a unique fundamental cell. The method is essentially an extension of Smith's, but may be used to study a wider variety of problems, such as nonuniform strip arrays, coplanar striplines, and broad-side coupled strips. Moreover, it is also possible to compute the coupling capacitance between nonadjacent strips.

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