Abstracts

Fullwave Analysis of Coupled-Finline Discontinuities

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The coupling between transmission line sections or resonators is used in a number of components, such as filters, couplers, etc. The general discontinuity problem of coupled-finline sections is considered. Depending on the arrangement, coupling may occur both at the ends or at the sides of the finlines. A particular case is the inductive strip discontinuity. The analysis is carried out expanding the fields in terms of hybrid modes in the transverse direction, according to the generalized transverse resonance method. Computed results are in good agreement with available data.

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