Abstracts

Network Representation for Lossless Symmetrical Discontinuities in a Multimode Waveguide

It is shown that a symmetrical, lossless 2N-port may be represented by an equivalent circuit, a 2N-port lattice network, which is a 2N-port generalization of the known two-port symmetrical lattice. The approach employed here in finding the equivalent circuits is based on the fact that any symmetrical 2N-port may be decomposed into two general N-port networks, each of which represents the opencircuit or short-circuit bisected structures.

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