Abstracts

Analysis of Branch Line Coupler in Suspended Stripline with Finite Metallization Thickness

F. Alessandri, M. Mongiardo, R. Sorrentino and J. Uher. "Analysis of Branch Line Coupler in Suspended Stripline with Finite Metallization Thickness." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1089-1092.

An efficient analysis of branch line coupler in suspended stripline technology is described. The finite metallization thickness of the stripline is fully accounted for by a rigorous full-wave technique. This is based on an improvement of the transverse resonance technique (TRT), which allows a resonator of fixed dimension to be considered. In this manner all the advantages of the TRT are kept (no complex modal spectra to be computed), while repeated field analyses to search for the resonant dimensions of the structure are avoided. The theory has been checked successfully against both experiments and theoretical results based on different numerical methods.

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