

Abstracts

Computer-Aided Design of Microstrip Filters Considering Dispersion, Loss, and Discontinuity Effects

R. Mehran. "Computer-Aided Design of Microstrip Filters Considering Dispersion, Loss, and Discontinuity Effects." 1979 Transactions on Microwave Theory and Techniques 27.3 (Mar. 1979 [T-MTT]): 239-245.

A computer-aided design procedure of microstrip filters involving junctions and discontinuities is investigated. The analysis of microstrip filters is described in detail considering dispersion, loss, and the frequency dependent properties of the microstrip discontinuities. It is found that the described analysis procedure leads to an accurate fast numerical computation of the microstrip filter properties. The theoretical results for some filter structures are compared with measurements, and theory and experiment are found to correspond closely.

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