Abstracts

An Accurate CAD Algorithm for E-Plane Type Bandpass Filters Using a New Passband Correction Method Combined with the Synthesis Procedures

J.-B. Lim, C.-W. Lee and T. Itoh. "An Accurate CAD Algorithm for E-Plane Type Bandpass Filters Using a New Passband Correction Method Combined with the Synthesis Procedures." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1179-1182.

A CAD algorithm using a new passband correction method combined with the synthesis procedures is presented for an accurate design of E-plane type bandpass filters. The proposed method gives a solution for the passband deviation problems associated with the conventional synthesis method. The passband correction factors are derived from the actual insertion losses of a pre-designed filter at the band-edge frequencies. Validity of the new method was confirmed by computer simulations and experimental measurements of the filters designed by this method.

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