Abstracts

Parameter extraction for symmetric coupled-resonator filters (2002 Vol. III [MWSYM])

Heng-Tung Hsu, Zhenyu Zhang, K.A. Zaki and A.E. Atia. "Parameter extraction for symmetric coupled-resonator filters (2002 Vol. III [MWSYM])." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1445-1448 vol.3.

A new parameter extraction procedure for symmetric coupled-resonator filters is presented. Closed form recursive formulas are derived for the synthesis of all the filter parameters from known zeros and poles of the even- and odd-mode input impedance functions. The simple and straightforward procedure can eliminate complicated optimization routines and have extensive applications in design and tuning of filters.

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