

Abstracts

Predistortion Techniques for Multicoupled Resonator Filters

A.E. Williams, W.G. Bush and R.R. Bonetti. "Predistortion Techniques for Multicoupled Resonator Filters." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 290-291.

This paper presents predistortion, lossy design techniques as applied to general, multicoupled resonator networks. The analytical procedure predistorts the poles of the transfer function to recover the lossless passband flatness at the expense of insertion loss. Experimental results on a dielectric-loaded, 6-pole, elliptic-function filter confirm the validity of the theory.

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