

Abstracts

The Modeling, Analysis, and Design of Filter-Based Parametric Frequency Dividers

G.R. Sloan. "The Modeling, Analysis, and Design of Filter-Based Parametric Frequency Dividers." 1993 Transactions on Microwave Theory and Techniques 41.2 (Feb. 1993 [T-MTT]): 224-228.

This paper documents a technique for the design of filter-based parametric frequency dividers. The technique combines basic divider analysis with modern nonlinear simulation techniques. In essence, the procedure allows the completion of a successful design that is based on computer simulations, but requires little or no nonlinear optimization. Specifically, the paper investigates divider modeling, threshold, and efficiency, and presents a straight-forward design strategy.

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