

Abstracts

On the Optimum Design of Microwave Active Frequency Doublers

P. Colantonio, F. Giannini, G. Leuzzi and E. Limiti. "On the Optimum Design of Microwave Active Frequency Doublers." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1423-1426.

A design procedure for the optimum design of microwave active frequency doubler is presented. The proposed methodology is based on a nonlinear mixed analysis / optimisation algorithm giving simultaneous solution and first-step optimization of the active multiplier. Design charts relying on repeated analysis / optimization allow the designer to trade-off between conversion gain, output power and available input power.

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