Abstracts

Nonlinear, Linear Analysis and Computer-Aided Design of Resistive Mixers

S. Egami. "Nonlinear, Linear Analysis and Computer-Aided Design of Resistive Mixers." 1974 Transactions on Microwave Theory and Techniques 22.3 (Mar. 1974 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 270-275.

Nonlinear large-signal analysis of local current shape and linear small-signal analysis of small-signal products are made for resistive mixers. Iteration adapted from Newton's method was used in the nonlinear analysis. The conjugate match method was used in the linear analysis to find the minimum conversion loss. These theories were applied to a new type spurious suppressed mixer and a reliable computer simulation was made.

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