Abstracts

Conditionally Stable Amplifier Design Using Constant µ-Contours (Dec. 1996, Part II [T-MTT])

M.L. Edwards and S. Cheng. "Conditionally Stable Amplifier Design Using Constant µ-Contours (Dec. 1996, Part II [T-MTT])." 1996 Transactions on Microwave Theory and Techniques 44.12 (Dec. 1996, Part II [T-MTT] (1996 Symposium Issue)): 2634-2640.

Conditionally stable amplifiers (O < k < 1) can be an attractive design option for commercial applications where increased gain can be achieved by accepting a measured risk of instability. A procedure is presented for designing amplifier input and output matching networks which permits an a-priori, quantitative trade-off between gain and the stability parameter, µ (or µ'). Analytical results have been derived suitable for CAD implementation.

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