Abstracts

A New Method of Broad-Band Equalization Applied to Microwave Amplifiers

H.J. Carlin and J.J. Komiak. "A New Method of Broad-Band Equalization Applied to Microwave Amplifiers." 1979 Transactions on Microwave Theory and Techniques 27.2 (Feb. 1979 [T-MTT]): 93-99.

A new approach to broad-band matching which bypasses analytic gain-bandwidth theory and directly utilizes measured real frequency impedance data is applied to gain equalization and low-noise design of GaAs Shottky-barrier FET amplifiers. Neither the equalizer topology nor the analytic form of the system transfer function are initially assumed. These result from the design process. Examples include an octave-band FET amplifier design and a low-noise FET amplifier design. The equalizers are realized with lumped elements or transmission-fine sections. A single basic least squares program implements the design procedure.

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