

Abstracts

CAD and Performance of the Ultrawide - Band GaAs FET Amplifiers

S. Shiying, H. Bin, W. Chucheng and Z. Xiaohung. "CAD and Performance of the Ultrawide - Band GaAs FET Amplifiers." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 401-404.

In this paper the effect of feedback elements on noise figure is discussed. The numerical analysis shows clearly the contribution of each sensitive element to noise figure and to other performance. A circuit analysis method concerned with tree-structured circuits is proposed. This method allows it possible to analyse such microwave two-port circuit which contains feedback networks (serial, parallel) and T branches more quickly and efficiently. As an example, three experimental amplifier modules have been developed that cover the frequency band 1.4-11.7 GHz, 2-10 GHz and 1.5-6.25 GHz.

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