

Abstracts

A New Effective Approach for High Yield Microwave Matching Network and Amplifier Design

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In this paper, orthogonal array experiment of statistics is at the first time introduced to design high yield matching networks and select high yield topologies of matching networks for the load impedances located at the different regions on the Smith Chart. The circuit designed by this new approach always has a high yield. Also with this new approach, an FET amplifier is designed. Its performances are similar to those of the amplifier of [5], but its yield is much higher than that of the latter.

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