Abstracts

Interactive "visual" design of matching and compensation networks for microwave active circuits

L.I. Babak and M.V. Cherkashin. "Interactive "visual" design of matching and compensation networks for microwave active circuits." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2095-2098 vol.3.

A new interactive "visual" technique is presented for designing lossless two-port matching and passive two-terminal compensation networks used in different RF and microwave active circuits. It relies on a visual representation of design process. The technique allows the user to select a suitable network configuration and to directly control all the network elements for successful fabrication. Lumped, distributed noncommensurate-line and mixed (lumped-distributed) networks of moderate complexity can be designed. The approach is implemented in the software tool LOCUS, offering a simple and fast means to produce solutions without the need for complicated circuit theory and mathematics.

❑ Return to main document.