

Abstracts

A simplified MPIE analysis for planar circuits with N-fold rotational symmetry and lumped elements

Yung-Jinn Chen, Yi-Hsin Pang and Ruey-Beei Wu. "A simplified MPIE analysis for planar circuits with N-fold rotational symmetry and lumped elements." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1563-1566.

By applying the idea of discrete Fourier transform to exploit the structural rotational symmetry, a simplified MPIE full wave analysis is proposed to handle planar circuits with lumped elements. Applications to a symmetrical five-port circuit and power combiner demonstrate the numerical efficiency and accuracy of this technique.

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