Abstracts

High-frequency characterization of power/ground-plane structures

Guang-Tsai Lei, R.W. Techentin and B.K. Gilbert. "High-frequency characterization of power/ground-plane structures." 1999 Transactions on Microwave Theory and Techniques 47.5 (May 1999 [T-MTT]): 562-569.

In this paper, we describe a strategy to characterize power and ground-plane structures using a full cavity-mode frequency-domain resonator model. We develop insights into modal analysis and introduce a novel technique to suppress modal impedances, minimizing both transfer and input impedances. The influence of port locations on the Z matrix is evaluated.

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