

# Abstracts

## The Use of Side Wall Images to Compute Package Effects in MoM Analysis of MMIC Circuits

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R.W. Jackson. "The Use of Side Wall Images to Compute Package Effects in MoM Analysis of MMIC Circuits." 1993 *Transactions on Microwave Theory and Techniques* 41.3 (Mar. 1993 [T-MTT]): 406-414.

A novel formulation is presented for the method of moments solution of shielded, enclosed microstrip MMIC circuits. The technique involves first computing a circuit's mutual impedance characteristics with no lateral enclosure and then adding a correcting term resulting from the images introduced by lateral side walls. The method is especially useful for determining the impact of low Q package resonances in very large packages. Large lateral enclosure size does not degrade the efficiency of this technique. The importance of the TM<sub>sub 0</sub> parallel plate mode in MMIC circuit coupling is emphasized.

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