

Abstracts

FDTD Analysis of High Performance MMIC Package

P. Mezzanotte, M. Mongiardo, L. Roselli and R. Sorrentino. "FDTD Analysis of High Performance MMIC Package." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. I [MWSYM]): 337-340.

The FDTD method is used to simulate high performance MMIC packages. Specific features of the method are: use of a matched source, graded mesh, and inclusion of a TEM feeding line to simulate the actual experimental setup. Computed results show excellent agreement with available experimental data up to 40 GHz. Theoretical results demonstrate the possibility of significant radiation loss associated with the package.

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