

Abstracts

Transient analysis of a spatial power combining amplifier

C.E. Christoffersen, S. Nakazawa, M.A. Summers and M.B. Steer. "Transient analysis of a spatial power combining amplifier." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 791-794 vol.2.

An integrated electromagnetic and circuit simulation environment is developed for the transient simulation of spatial power combining systems. The analysis incorporates surface modes, nonuniform excitation and full nonlinear effects. A state-variable approach makes the transient analysis very robust. The simulation tools are used to predict the performance of a 2 by 2 quasi-optical grid amplifier.

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