

Abstracts

Accuracy of Bipolar Compact Models Under RF Power Operating Conditions

M.P.J.G. Versleijen and A. Bauvin. "Accuracy of Bipolar Compact Models Under RF Power Operating Conditions." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1583-1586.

The large-signal accuracy of the SPICE Gummel-Poon and MEXTRAM bipolar compact models for circuit simulation is assessed by means of comparison with 2D large-signal mixed-mode device/ circuit simulations under realistic RF power operating conditions. This verification approach eliminates measurement uncertainties and thus concentrates on the intrinsic model behavior. The overall accuracy of both models is found to be quite good. MEXTRAM is more accurate, especially at high-excitation levels.

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