

Abstracts

MESFET Simulation Oriented Toward Computer-Aided Microwave Circuit Design (Short Papers)

P.A. Sandborn and P.A. Blakey. "MESFET Simulation Oriented Toward Computer-Aided Microwave Circuit Design (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.4 (Apr. 1990 [T-MTT]): 426-429.

This paper describes a MESFET simulator designed to link physically based transistor simulation to microwave circuit simulation within an integrated CAD environment. The key features of the simulator are efficient implementation of a large-signal time-domain device simulation kernel; incorporation of extensive postprocessing of raw time-domain data; and an interactive, graphics-oriented user interface. An example is presented that demonstrates the utility of the approach for assessing circuit models.

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