Abstracts

Full-wave modeling of linear FETs for millimeter waves

M. Farina and T. Rozzi. "Full-wave modeling of linear FETs for millimeter waves." 2001 Transactions on Microwave Theory and Techniques 49.8 (Aug. 2001 [T-MTT] (Mini-Special Issue on the 2000 IEEE Radio and Wireless Conference (RAWCON))): 1443-1450.

Current monolithic-microwave integrated-circuit design, involving frequencies far in the millimeter and sub-millimeter ranges, is faced with the problem of the distributed nature of the devices. In this paper, we introduce a full-wave approach to the modeling of FETs under the small-signal hypothesis. The method is applied to MESFETs and pseudomorphic high electron-mobility transistors of different topologies and validated by comparison with available experimental data.

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