

Abstracts

Direct extraction of the series equivalent circuit parameters for the small-signal model of SOI MOSFETs

J.P. Raskin, G. Dambrine and R. Gillon. "Direct extraction of the series equivalent circuit parameters for the small-signal model of SOI MOSFETs." 1997 Microwave and Guided Wave Letters 7.12 (Dec. 1997 [MGWL]): 408-410.

A new extraction scheme is proposed which allows to determine all the series equivalent circuit elements values from S-parameters measurements at a single bias point in saturation.

Exploiting the specific shape of a set of impedance loci, the new scheme uses linear regression techniques to solve the extraction problem. The resulting algorithm is very simple and efficient when compared to optimizer-driven approaches.

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