

Abstracts

An Experimental Verification of a Simple Distributed Model of MIM Capacitors for MMIC Applications

J.P. Mondal. "An Experimental Verification of a Simple Distributed Model of MIM Capacitors for MMIC Applications." 1987 Transactions on Microwave Theory and Techniques 35.4 (Apr. 1987 [T-MTT]): 403-408.

A distributed model has been derived for MIM capacitors using a simple coupled-transmission-line approach. The model has been compared with measured S-parameter data from MIM capacitors having different aspect ratios fabricated on 4-mil GaAs substrates. The agreement is very good. The derived model will converge to the first-order capacitor model, generally given in the literature, under a few assumptions.

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