Abstracts

A 3-D method of moments for the analysis of real life MMICs

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In this paper we introduce a 3-D Method of Moments (MoM) approach, suitable for the analysis of real life monolithic circuits for microwaves/millimeter waves (MMIC). It shares the flexibility and the efficiency of the currently available spectral domain commercial simulators, while considering all metallizations to have finite thickness and finite conductivity. The method is successfully applied to a microelectromechanical system (MEMS) capacitive switch in the 1-50 GHz frequency range.

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