Abstracts

Packaging and Interconnection Mutual Coupling Effects in Planar Structures and Discontinuities

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In the present paper, an integral equations technique solved by the method of moment is used to analyse parasitic coupling in general shielded planar structures. Two main ones are studied: the coupling between a planar component and its enclosure and the coupling between planar components themselves.The first effect is illustrated by the calculated values of the effective permettivity of uniform planar lines and the S parameters for a suspended stripline stub discontinuity for different enclosure geometries. The mutual coupling between two small spaced microstrip stubs is also presented and discussed. Comparison with other numerical results as well as with other published experimental ones has verified the accuracy and the numerical efficiency of the present approch.

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