Abstracts

Circuit model for coupling between MMICs in multichip modules including resonance effects

R.W. Jackson and Zhaoyang Wang. "Circuit model for coupling between MMICs in multichip modules including resonance effects." 1998 Transactions on Microwave Theory and Techniques 46.7 (Jul. 1998 [T-MTT]): 959-965.

This paper describes a circuit model to be used for the approximate calculation of coupling between monolithic microwave integrated circuits (MMICs) in a multichip module. The model is developed from basic electromagnetic principles and relies on the formation of equivalent electric dipoles to represent the complex currents on the various MMICs within the module. The technique is suitable for use in layout-based circuit simulators and uses no numerical analysis.

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