

Abstracts

Time domain modelling of E.M. coupling between microwave circuit structures

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The method of adapted radiating boundaries (ARB) is an efficient tool for the numerical time domain modeling of electromagnetic interaction between complex structures at some distance. The electromagnetic interaction between the structures is described via discrete time domain Green's functions. The electromagnetic field inside the structures is modeled using the space discretizing TLM method. The ARB method is applied to the modeling of coupled spiral inductors. Numerical results obtained with the ARB method are compared with results from the pure TLM method.

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