Abstracts

An adaptive multiresolution approach to the simulation of planar structures

P. Pirinoli and G. Vecchi. "An adaptive multiresolution approach to the simulation of planar structures." 2002 Microwave and Wireless Components Letters 12.2 (Feb. 2002 [MWCL]): 45-47.

An efficient approach for the full-wave analysis of printed structures is presented. It is based on the use of vector multiresolution (MR) functions in conjunction with the impedance matrix compression (IMC) technique, which leads to a reduced set of iteratively selected basis functions. The multilevel structure of the functions makes the matrix compression possible and also allows its further sparsification, with the subsequent reduction of the computational time and the matrix memory occupancy. Numerical results confirm the efficiency of the technique.

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