

Abstracts

Synthesis of Absorbing Boundary Condition with Digital Filter Bank

C.-N. Kuo, T. Itoh and B. Houshmand. "Synthesis of Absorbing Boundary Condition with Digital Filter Bank." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1043-1046.

This paper generalizes the technique of using a bank of IIR filters to realize the ABC in the FDTD method. The filter can absorb propagating and evanescent waves and multimode as well. This approach is applied to the problem of an inductive iris, which is only 0.1λ away from the ABC plane.

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