Abstracts

The dispersive boundary condition applied to nonuniform orthogonal meshes

J.A. Svigelj and R. Mittra. "The dispersive boundary condition applied to nonuniform orthogonal meshes." 1999 Transactions on Microwave Theory and Techniques 47.3 (Mar. 1999 [T-MTT]): 257-264.

The dispersive boundary condition (DBC) is a versatile boundary condition in that it can be used for radiation problems as well as for guided-wave problems. The DBC is applied to nonuniform meshes and various implementations are reported. Stability issues are discussed and numerical results are presented for a microstrip line and for a point source radiator. Error analysis is carried out in the time and frequency domains.

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