Abstracts

A Fast Two Dimensional FDTD Full-Wave Analyser with Adaptive Mesh Size

S. Xiao, R. Vahldieck and H. Jin. "A Fast Two Dimensional FDTD Full-Wave Analyser with Adaptive Mesh Size." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 783-786.

A two-dimensional variable Yee's mesh algorithm with reduced mid size is proposed for the full-wave analysis of arbitrarily shaped guided wave structures. The method includes losses and allows the frequency selective application of the FDTD method. The continuously variable mesh size in x- and y-direction makes it possible to resolve partially fine circuit structures in both dimensions, while in other circuit sections a come mesh size can still be used.

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