

Applications of multiresolution based FDTD multigrid

K. Goverdhanam, L.P.B. Katehi and A. Cangellaris. "Applications of multiresolution based FDTD multigrid." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 333-336.

A Multigrid 2-D Finite Difference Time Domain (FDTD) technique based on Multiresolution analysis with Haar wavelets is used to analyze structures such as an empty waveguide and a shielded stripline. The results obtained are compared with those computed using a finer resolution regular FDTD mesh. This comparative study illustrates the benefits of using wavelets in FDTD analysis.

 [Return to main document.](#)