Abstracts

Application of wavelet-Galerkin method to electrically-large optical waveguide problems

M. Fujii and W.J.R. Hoefer. "Application of wavelet-Galerkin method to electrically-large optical waveguide problems." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 239-242.

The wavelet-Galerkin method based on highly regular Daubechies' compactly supported scaling functions has been applied to two-dimensional time-domain optical waveguide problems. The simple local sampling and the small numerical dispersion properties have enabled full-wave analysis of electrically-large inhomogeneous structures in a reasonable computational effort.

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