

# Abstracts

## A wavelet-based FDTD-multigrid-method

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*M. Walter, P. Waldow and I. Wolff. "A wavelet-based FDTD-multigrid-method." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2023-2026 vol.3.*

In the past years, several methods combining FDTD-like algorithms and wavelets have been developed in order to reduce simulation times. We present a method that directly transforms Yee's three-dimensional FDTD-algorithm into the wavelet domain at arbitrary scale. We derive an analytic and stable multigrid-like method and present simulation results.

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