

# Abstracts

## Applying wavelets to electromagnetic field simulation: the method of lines

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O. Pertz and A. Beyer. "Applying wavelets to electromagnetic field simulation: the method of lines." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 129-132.

Recently, wavelets have proved to be an efficient and valuable tool for solving partial differential equations numerically, especially Maxwell's equations. In this paper wavelets are applied to the well-known method of lines. The basic theory, verifications for this method and examinations of the influence of different wavelet types are presented.

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