

Abstracts

A new MRTD scheme based on Coifman scaling functions for the solution of scattering problems

Xingchang Wei, Erping Li and Changhong Liang. "A new MRTD scheme based on Coifman scaling functions for the solution of scattering problems." 2002 Microwave and Wireless Components Letters 12.10 (Oct. 2002 [MWCL]): 392-394.

This letter describes a new multiresolution time-domain scheme which is developed based on Coifman compactly supported scaling functions with a number of vanishing moments. The highly linear dispersion properties of this scheme are investigated and two-dimensional and three-dimensional scattering problems are analyzed in order to demonstrate the advantages of this scheme over conventional finite difference time-domain schemes with respect to memory requirements and computing time.

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