

Abstracts

A Hybrid PEE-FDTD Algorithm for Accelerated Time Domain Analysis of Electromagnetic Waves in Shielded Structures

M. Mrozowski. "A Hybrid PEE-FDTD Algorithm for Accelerated Time Domain Analysis of Electromagnetic Waves in Shielded Structures." 1994 Microwave and Guided Wave Letters 4.10 (Oct. 1994 [MGWL]): 323-325.

A new algorithm for the time domain analysis of electromagnetic waves in shielded structures is presented. The algorithm combines the FDTD with a recently developed partial eigenfunction expansion (PEE) scheme to obtain acceleration in numerical calculation and savings in computer memory. An example of the application of the algorithm is presented showing an overall speed improvement.

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