Abstracts

Reduced-order models in FDTD

L. Kulas and M. Morozowski. "Reduced-order models in FDTD." 2001 Microwave and Wireless Components Letters 11.10 (Oct. 2001 [MWCL]): 422-424.

This letter describes a new hybrid technique for enhancing the efficiency of the finite difference time domain method (FDTD) by incorporation with in Yee's mesh a macromodel generated by an order reduction algorithm applied to the finite difference frequency domain (FDFD) wave equation defined on a higher resolution grid. This approach increases the accuracy of the calculations and reduces the overall simulation time.

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