

Abstracts

Digital Signal Processing of Time Domain Field Simulation Results Using the System Identification Method (Apr. 1994, Part I [T-MTT])

W. Kumpel and I. Wolff. "Digital Signal Processing of Time Domain Field Simulation Results Using the System Identification Method (Apr. 1994, Part I [T-MTT])." 1994 Transactions on Microwave Theory and Techniques 42.4 (Apr. 1994, Part I [T-MTT]): 667-671.

A new technique for significantly reducing the computation time of time domain field simulations using modern digital signal processing techniques is presented. The procedure leads to a simple model of the investigated structure in form of a digital filter. The method is applied to TLM simulations of eigenvalue problems and to transient analysis using the FDTD method.

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