

# Abstracts

## **[A new multiresolution near-field to near-field transform suitable for multi-region FDTD schemes](#)**

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*A. Laisne, R. Gillard and G. Piton. "A new multiresolution near-field to near-field transform suitable for multi-region FDTD schemes." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 893-896 vol.2.*

In this paper, new Discrete Wavelet Transform (DWT)-based compression techniques are applied to the computation of the near-field to near-field transform in a Multi-Region FDTD (MR/FDTD) scheme. The compression is applied to both radiating fields on the source surface and incident fields on the excitation surface, which significantly decreases the computation cost of the interactions between the volumes.

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