

Abstracts

A Multi-Relaxation (FD)²-TD Method for Modeling Dispersion in Biological Tissues (Short Papers)

R. Pontalti, L. Cristoforetti, R. Antolini and L. Cescatti. "A Multi-Relaxation (FD)²-TD Method for Modeling Dispersion in Biological Tissues (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.3 (Mar. 1994 [T-MTT]): 526-528.

Pulse excitation in FD-TD provides multifrequency results with a single run of the code. The introduction of the Frequency Dependent FD-TD ((FD)²-TD) has also recently provided a means to deal with dispersive materials on condition that they had a first order permittivity. In this paper, a multirelaxation approach is presented to widen the (FD)²-TD applicability to materials with more complex permittivity such as biological tissues.

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