

Abstracts

Improved autoregressive (AR) signal modeling for FDTD resonance estimation

A. Lauer and I. Wolff. "Improved autoregressive (AR) signal modeling for FDTD resonance estimation." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 255-258.

Standard autoregressive signal processing is very sensitive to the model system's order, instabilities can occur and make the model unusable. To overcome this drawback in this paper a mixed DFT/AR (DAR) method is presented using frequency domain AR evaluation, which is insensitive to unstable poles of the AR model. Numerical examples for the good performance of the algorithm are presented.

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