

Improved autoregressive (AR) signal modeling for FDTD resonance estimation

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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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