Abstracts

Use of Frequency Derivatives in the 3-D Full-Wave Spectral Domain Technique

Rational function approximations are used to extrapolate the frequency response of the scattering coefficients of 3-D structures. The rational functions are constructed by applying Pade approximation techniques to single frequency solutions of the currents and the derivatives of the currents with respect to frequency. The currents and current derivatives are computed using a modfied spectral domain technique. The efficiency of the method, along with the direct determination of the poles and xeros of the transfer function, make the method well suited for Model-Based Parameter Estimation (MBPE). Multi-frequency-point Pade approximations are also investigated.

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