

Efficient computation of double series for the planar circuit analysis via APA-E algorithm

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A novel efficient numerical algorithm for computation of double series for the planar circuit analysis is proposed in this paper, The method is based on the abstract Pade approximation and extrapolation algorithm. In order to demonstrate its advantages, the classical multivariable rational Pade approximation is also constructed for comparison. It is shown by the calculation results that the method presented here can provide fast convergence and high accuracy, so it is much better than the classical Pade approximation and original analytical formula for computing planar circuit parameters with the summation of two-dimensional infinite modes.

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