

Abstracts

Multi-dimensional Cauchy method and adaptive sampling for an accurate microwave circuit modelling

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The paper presents an effective generic approach for CAD design of microwave circuits. We extend the one-dimensional Cauchy method for frequency response interpolation to a multi-dimensional Cauchy interpolation with respect to both frequency and physical dimensions. The paper also demonstrates the feasibility of applying adaptive sampling to the multi-dimensional rational function expansion. Two examples are given to verify the validity of the proposed approach.

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