

Abstracts

Study of Gridding and Cell-Cell Interactions in the Method of Moments Analysis of Arbitrarily Shaped Planar Circuits

J. Sercu, N. Fache, F. Libbrecht and D. De Zutter. "Study of Gridding and Cell-Cell Interactions in the Method of Moments Analysis of Arbitrarily Shaped Planar Circuits." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 753-756.

A method of Galerkin analysis of polygonal planar circuits embedded in a multilayered medium is presented. The circuit is gridded up using rectangular and triangular cells. Rooftop basis functions are used. The paper focuses on an efficient calculation scheme for the cell-cell interactions. A microstrip low-pass filter is investigated and comparisons are made with measured and other simulated data. Grid accuracy and convergence are discussed.

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