Abstracts

Design of planar circuit structures with an efficient magneto-static field solver

S. Lindenmeier and P. Russer. "Design of planar circuit structures with an efficient magneto-static field solver." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1807-1810.

We introduce a highly efficient magneto-static field solver for the design of lossless planar circuit elements with arbitrary shape and size far below the wavelength. The field solver is based on a finite difference formulation of a scalar magnetic potential, using potential partitioning surfaces (PPS). We present numerical results at the examples of various planar circuit elements.

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