Abstracts

Application of Curved Parametric Triangular and Quadrilateral Edge Elements in the Moment Method Solution of the EFIE

N.Y. Zhu and F.M. Landstorfer. "Application of Curved Parametric Triangular and Quadrilateral Edge Elements in the Moment Method Solution of the EFIE." 1993 Microwave and Guided Wave Letters 3.9 (Sep. 1993 [MGWL]): 319-321.

The application is reported of curved parametric triangular and quadrilateral edge elements, which have been successfully applied in the finite-element method (FEM) in the last 10 years, as basis functions in the moment method (MM) solution of the electric field integral equation (EFIE). In this way, an arbitrarily shaped surface can be modeled more accurately than with conventional planar patches. Consequently, higher accuracy in the numerical solution can mostly be obtained, as demonstrated by numerical examples.

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