Abstracts

High-order mixed RWG basis functions for electromagnetic applications

In this paper, we present an explicit form of high-order mixed Rao-Wilton-Glisson basis functions for electromagnetic (EM) simulation of curved conductor surfaces. Basis functions for combinations of curved triangular and quadrilateral patches can be used. Several applications of EM simulations in multilayered media, such as three-dimensional discontinuities in very large scale integration design, multilayered RF components, and multilayered antennas, are provided to show the feasibility and efficiency of the mixed basis functions.

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