

Abstracts

Shape Function Optimization in the Finite Element Analysis of Waveguides

H.E. Hernandez-Figueroa and G. Pagiatakis. "Shape Function Optimization in the Finite Element Analysis of Waveguides." 1993 Transactions on Microwave Theory and Techniques 41.6 (Jun./Jul. 1993 [T-MTT]): 1235-1238.

In this paper, a novel finite element technique is presented, which can substantially reduce the computational effort required for the analysis of waveguide structures. Demonstrative examples, whose finite element solutions are obtained by combining this technique with two well-known formulations--E_z--H_z and H-field-are given.

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