

Abstracts

Higher Order Approximation for the Difference Operators in the Method of Lines

R. Pregla. "Higher Order Approximation for the Difference Operators in the Method of Lines." 1995 Microwave and Guided Wave Letters 5.2 (Feb. 1995 [MGWL]): 53-55.

In this paper a new general formalism for improving the convergence of the Method of Lines (MoL) is presented. The procedure reduces the discretization error to an order of higher than $O(h/\sup 4/)$. The convergence behaviour is demonstrated for a rib waveguide for optical frequencies.

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