

# Abstracts

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

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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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