

# Abstracts

## Treatment of Field Singularities in the Finite-Difference Approximation

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*K. Beilenhoff and W. Heinrich. "Treatment of Field Singularities in the Finite-Difference Approximation." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 979-982.*

Due to the discretization of space, the Finite-Difference method cannot resolve exactly singularities of the electric and magnetic field at metallic edges. This paper presents a simple method which reduces the corresponding error without increasing the numerical efforts. The new edge formulation is tested by calculating the line parameters and the field pattern of an homogeneous MMIC coplanar-waveguide.

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