

Abstracts

The Finite-Integration Beam-Propagation Method (FIBPM)

M. Niederhoff, W. Heinrich and P. Russer. "The Finite-Integration Beam-Propagation Method (FIBPM)." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 483-486.

We present a novel full-vector beam-propagation method where the discretization of Maxwell's equations is performed by finite integration (FIBPM). This allows to include thin layers of complex permittivity without increasing mesh density. A FIBPM code for a massively parallel computer has been developed and applied successfully to laser diode structures.

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