

MOL-mode analysis with precise resolution by an enhanced and generalized line algorithm

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A new algorithm based on the Method of Lines for computation of eigenmodes in waveguides for microwave and millimeter frequencies is proposed and substantiated. The algorithm uses discretization lines in different directions and in some regions of the guide cross-section in two perpendicular directions. This enables a precise computation of the fields and propagation parameters. The algorithm allows analysis of complex waveguide structures.

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