

Accuracy of TLM Solutions of Maxwell's Equations (1996 Vol. II [MWSYM])

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The physical origin of the coarseness and dispersion errors affecting TLM solutions of Maxwell's equations is investigated. The study is performed by solving the difference equations of the method analytically. The results confirm a reduction of the accuracy of the discrete solution near field singularities. This effect is a consequence of the finite number of spatial modes supported by the discretized domain.

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