Abstracts

Upper Bound on Cell Size for Moment-Method Solutions

M.J. Hagmann, O.P. Gandhi and C.H. Durney. "Upper Bound on Cell Size for Moment-Method Solutions." 1977 Transactions on Microwave Theory and Techniques 25.10 (Oct. 1977 [T-MTT]): 831-832.

When pulse functions are used in moment-method solutions, failure to allow for variation of the field within each cell limits the maximum usable electrical size of the cells. Appreciable error is expected for |k| l >or= 2 in one or two dimensions and |k| l >or= /spl radic/6 in the three-dimensional problem where l is the side of a cell and k is the propagation constant in the material.

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