Abstracts

Generalized multi-gridding technique for the TLM method using the symmetrical super-condensed node (SSCN)

G.N. Mulay and K.S. Jog. "Generalized multi-gridding technique for the TLM method using the symmetrical super-condensed node (SSCN)." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1999-2002 vol.3.

This paper extends Wlodarcyzk's TLM multi-gridding-technique to the generalized one and two dimensional cases wherein the fine meshes can have different lengths and widths. The advantage is that it is no longer necessary to divide the problem space into separate 'coarse' and 'fine' regions which provides for considerable meshing flexibility. Equations describing the connection procedure for the SSCN are derived. Modelling of crosstalk between PCB tracks is implemented with this new method and the simulation results compared with experiments.

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