Abstracts

A New Multi-Grid 3-D TLM Algorithm for Simulation of Microwave FSS

M.I. Sobhy, M.H.A. El-Azeem and K.W. Royer. "A New Multi-Grid 3-D TLM Algorithm for Simulation of Microwave FSS." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 439-442.

This paper describes and demonstrates a new TLM multi-grid algorithm which allows arbitrary mesh dimension changes. Its use is demonstrated in the modelling of Frequency Selective Surfaces (FSS) used in microwave antenna systems where the mesh can be adjusted to describe arbitrary dimensions precisely. The algorithm demonstrates good numerical stability and has been applied to numerous Symmetric Condensed Node (SCN) TLM problems.

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