Abstracts

Improved Excitation of 3D SCN TLM Based on Voltage Sources

J.L. Herring and W.J.R. Hoefer. "Improved Excitation of 3D SCN TLM Based on Voltage Sources." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 1031-1034.

The implementation of voltage, current, electric field and magnetic field sources is described. The correct voltage pulses that must be injected into a TLM network to produce a given temporal and spatial field distribution are obtained by placing voltage sources in a reference structure. This gives a field of known amplitude in which transients decay more rapidly than with the conventional approach. The method is applied to a waveguide.

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