# Abstracts

## S-Parameters of Microwave Components Computed with the 3D Condensed Symmetrical TLM Node

*J. Uher, S. Liang and W.J.R. Hoefer. "S-Parameters of Microwave Components Computed with the 3D Condensed Symmetrical TLM Node." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 653-656.*

The symmetrical condensed node TLM method is used for S-matrix computation of microwave circuits. An edge coupled microstrip bandpass filter and a discontinuous ridge waveguide are analysed as typical examples. The conditions which must be satisfied in S-parameter computation of such circuits are defined. The validity of the method is verified by comparison with results obtained by other numerical methods.

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