

Abstracts

A new modal approach for planar transmission line to waveguide three-port transition

B. Storer, H. Aubert and H. Baudrand. "A new modal approach for planar transmission line to waveguide three-port transition." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. I [MWSYM]): 203-206.

A new modal approach for deriving the admittance matrix of a waveguide to planar transmission line probe transition is presented. The proposed rigorous formulation considerably reduce computation time compared with finite elements method. The junction was fabricated and measured in the case of a waveguide to microstrip line probe transition. Numerical and experimental results are compared with success.

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