

Abstracts

Improved Theory for E-Plane Symmetrical Tee Junctions (Short Papers)

T. Obata and J. Chiba. "Improved Theory for E-Plane Symmetrical Tee Junctions (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 624-627.

We examine Lewin's theory, which describes an E-plane symmetrical tee junction by a peculiar equivalent circuit with only three parameters. It is shown that although his theory is formally correct, its circuit parameters depend on the amplitudes of reflected waves. An improved theory corrects this fault.

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