Abstracts

Microstrip/Slotline Transitions: Modeling and Experimental Investigation

B. Schuppert. "Microstrip/Slotline Transitions: Modeling and Experimental Investigation." 1988 Transactions on Microwave Theory and Techniques 36.8 (Aug. 1988 [T-MTT]): 1272-1282.

In this paper an analysis of microstrip/slotline transitions is given using a network description through transmission-line models. Different transitions, such as transitions containing uniform and nonuniform lines as well as soldered and virtually shorted microstrip lines, will be treated. The validity of the modeling results is verified experimentally by measuring the transmission coefficient of a cascade of two transitions separated by a slotline in the frequency range from 1 to 16 GHz. For practical applications, design curves are given for 0.635-mm-thick alumina substrates.

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