

# Abstracts

## Synthesis of Certain Transmission Lines Employed in Microwave Integrated Circuits (Letters)

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*R. Crampagne and G. Khoo. "Synthesis of Certain Transmission Lines Employed in Microwave Integrated Circuits (Letters)." 1977 Transactions on Microwave Theory and Techniques 25.5 (May 1977 [T-MTT]): 440-442.*

With a quasi-TEM approximation, the characteristic parameters of numerous structures used as hyperfrequency microelectronics transmission lines can be calculated with the aid of conformal mapping. Simple theoretical formulas are rarely used since they bring into play the function  $K(k)/K'(k)$  where  $K(k)$  is the complete elliptic integral of the first type,  $K'(k)$  its complementary function, and  $k$  its argument.

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