

# Abstracts

## Synthesis of Lange Couplers (Short Papers)

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*R.M. Osmani. "Synthesis of Lange Couplers (Short Papers)." 1981 Transactions on Microwave Theory and Techniques 29.2 (Feb. 1981 [T-MTT]): 168-170.*

This paper shows that it is possible to synthesize Lange couplers directly and thereby save considerable computing time. The procedure outlined is essentially based on two available techniques: Ou's analysis of the Lange coupler and Akhtarzad's design method for a pair of coupled microstrip lines. Including a correction in the latter for a single strip shape ratios less than unity, is significant. The described approach compares favorably with existing iterative methods and was used to obtain reasonably good performances on a low dielectric constant laminate.

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