

Abstracts

Eigenvalue Matrix Analysis of Segmented Stripline Junction Disk Circulator

K.M. Gaukel and E.-B. El-Sharawy. "Eigenvalue Matrix Analysis of Segmented Stripline Junction Disk Circulator." 1995 Transactions on Microwave Theory and Techniques 43.7 (Jul. 1995, Part I [T-MTT]): 1484-1493.

An accurate and numerically efficient analysis technique for tightly coupled three-port stripline circulators is discussed. By using the three-way symmetry of the network, the port-only segmentation analysis is reduced to generating and solving three smaller "eigenvalue matrices." In addition, accuracy enhancement is shown by weighting the subport characteristic impedances and subport angles to more accurately reflect the current distribution of the ports.

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