Abstracts

Efficient Analysis of a Waveguide Pi-Junction with an Inductive Post

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The waveguide pi-junction with an inductive post is utilized as the element of a multiple-way power divider in a slotted waveguide array. Based on the port reflection coefficient method (PRCM), an efficient full wave approach is proposed for the accurate characterization of the pi-junction. Scattering behaviors of the four-port junction are provided as a function of the geometric dimensions of the structure, and they are helpful for the design of power dividers using this pi-junction configuration. The results are compared with available data, and good agreement is found.

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