Abstracts

Applications of the Turnstile Junction

M.A. Meyer and H.B. Goldberg. "Applications of the Turnstile Junction." 1955 Transactions on Microwave Theory and Techniques 3.6 (Dec. 1955 [T-MTT]): 40-45.

The Turnstile Junction is a six-terminal pair microwave network, consisting of four coplanar rectangular arms and a circular arm, orthogonal to the rectangular arms, which is excited in two orthogonal TE 1, 1, modes. The characteristics of the network are such that they lend themselves to some very important and unique applications in the microwave field. Making use of the symmetry conditions and the field division properties of the Junction, this paper describes the operation of the Junction under various conditions, with particular emphasis on the applications to which these characteristics lend themselves.

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