Abstracts

Transmission Matrix of a Linear Double Taper in Rectangular Waveguides

This paper presents a method of finding the transmission matrix parameters of a linear double taper in rectangular waveguides. The taper is divided into a number of sections of uniform length. The transmission matrix of each section is found out and they are multiplied to get the final transmission matrix. The matrix is used to find the complex reflection coefficient when the other end is terminated by a known load. The theoretical results are compared with the experimental results of Matsumaru and Johnson and they are found to be in good agreement.

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