

Abstracts

A Study of Multielement Transmission Lines

H. Kogo. "A Study of Multielement Transmission Lines." 1960 Transactions on Microwave Theory and Techniques 8.2 (Mar. 1960 [T-MTT]): 136-142.

Although many papers have been published on the subject of multielement transmission lines, the application to practical problems seems rather inconvenient. The author proposes a solution to the general equations which relate the voltage difference between the lines and the mesh current. Under particular conditions, it is shown that only a single type of propagating mode exists. In this case, the solution has been obtained by the so called "decomposition method", i.e., assuming several virtual two element transmission lines in lieu of the existing multielement transmission line. The problem has been solved by means of the resolved superposed virtual lines taking into account the existing boundary condition.

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