

Abstracts

The Electromagnetic Fields and the Phase Constants of Dielectric Image Lines (Apr. 1978 [T-MTT])

K. Solbach and I. Wolff. "The Electromagnetic Fields and the Phase Constants of Dielectric Image Lines (Apr. 1978 [T-MTT])." 1978 Transactions on Microwave Theory and Techniques 26.4 (Apr. 1978 [T-MTT]): 266-274.

A method is described for the exact calculation of the field distributions and the phase constants of single and coupled dielectric image lines of rectangular cross section. Field distributions and phase constants calculated by this method are presented as well as experimental results from lines fabricated of paraffin wax. The physical properties of the electromagnetic fields and the mode designation are discussed. The theory is compared to approximate calculation methods known from the literature.

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