

# Abstracts

## Analysis of the Shielded-Strip Transmission Line with an Anisotropic Medium (Short Papers)

*H. Shibata, S. Minakawa and R. Terakado. "Analysis of the Shielded-Strip Transmission Line with an Anisotropic Medium (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.8 (Aug. 1982 [T-MTT]): 1264-1267.*

Analysis of the shielded stripline with an anisotropic medium is presented by means of an affine transformation and a conformal mapping technique. The capacitance is represented in the function  $K'(k) / K(k)$  with a modified modulus  $k$ , which is obtained by multiplying  $d$ , the width between the ground planes in [1, table I], by  $\alpha$ . The parameter  $\alpha$  relates to the anisotropic medium. The exact distributions of equipotentials and lines of electric flux in the anisotropic medium are also presented.

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