Abstracts

Characteristic Impedance and Electromagnetic Field Distribution in Metal-Insulator-Semiconductor Microstrip (Short Papers)

T.G. Livernois and P.B. Katehi. "Characteristic Impedance and Electromagnetic Field Distribution in Metal-Insulator-Semiconductor Microstrip (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1740-1743.

The characteristic impedance for MIS microstrip is calculated using a space-domain representation of electromagnetic fields. The numerical results obtained are compared with published experimental data. Transverse fieId distributions for various structural parameters are presented and used to illustrate the three distinct modes of operation for MIS transmission lines.

❑ Return to main document.