Abstracts

A Unified Hybrid Mode Analysis for Planar Transmission Lines with Multilayer Isotropic/Anisotropic Substrates

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A unified hybrid mode analysis is presented for determining the propagation characteristics of multiconductor multilayer planar transmission lines. The analysis employs the conservation of complex power technique, and the emphasis k on numerical efficiency and simplicity. Numerical results, for finline and microstrip configurations, aim at the clarification of the effects of the metallization thickness, dielectric anisotropy and substrate mounting grooves.

❑ Return to main document.