Abstracts

Scattering from 3-Dimensional Discontinuities in Microwave Transmission Lines

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A material body whose constitutive parameters are μ=μ'-jμ'', epsilon=epsilon'-jepsilon'' located in a stripline, partially filling it, represents a 3D scattering problem. This problem is solved by the Reaction Method yielding the configuration's scattering parameters. An iterative procedure then enables the determination of μ, epsilon from the measured values of the S-parameters.

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