Abstracts

Analysis of Elliptic and Cylindrical Striplines Using Laplace's Equation

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Analysis of elliptic and cylindrical striplines based on Laplace's equation is presented. The solution of boundary value problem is obtained by an application of the modified residue calculus technique. The numerical results on the characteristic impedance are presented for a wide range of parameters. From the series solution of the Laplace's equation, the potential distribution is determined. The effect of warpage due to environmental changes on an otherwise planar structure is also estimated.

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