

Abstracts

Exact Analysis of Shielded Microstrip Lines and Bilateral Fin Lines (Jul. 1981 [T-MTT])

A.-M.A. El-Sherbiny. "Exact Analysis of Shielded Microstrip Lines and Bilateral Fin Lines (Jul. 1981 [T-MTT])." 1981 *Transactions on Microwave Theory and Techniques* 29.7 (Jul. 1981 [T-MTT]): 669-675.

An exact analysis is presented for shielded microstrip and bilateral fin lines. The method of analysis is based on function-theoretic approach to solve a set of functional equations in the Fourier transform domain, representing the independent excitation of LSE and LSM modes in the systems without strip or fin conductors. The solution is obtained in the form of highly convergent systems of algebraic equations, which allow the accurate calculation of fields and the electrical parameters of these lines at arbitrary frequencies.

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