Abstracts

Improved quasi-static spectral domain analysis of microstrip lines on high-conductivity insulator-semiconductor substrates

J. Aguilera, R. Marques and M. Horno. "Improved quasi-static spectral domain analysis of microstrip lines on high-conductivity insulator-semiconductor substrates." 1999 Microwave and Guided Wave Letters 9.2 (Feb. 1999 [MGWL]): 57-59.

An improved quasi-static integral spectral domain analysis (SDA) for multistrips on a layered insulator-semiconductor substrate is proposed. This method of analysis significantly improves previous quasi-static SDA, accounting for the series resistance of the line in addition to the shunt conductance considered in the conventional quasi-TEM SDA. An excellent agreement with the full-wave analysis results is obtained with considerably less computation time.

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