Abstracts

Efficient analysis of microstrip radiation by the TLM integral equation (TLMIE) method

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Microstrip lines are widely used in microwave and millimeter-wave integrated circuits. In this paper we present an accurate analysis of the EM near and far field radiated by a microstrip line. The EM analysis is developed by a novel method, the Transmission Line Matrix Integral Equation (TLMIE) method. This method combines the advantages of the TLM method, which is very flexible for the modeling of general structures with arbitrary shapes, and the advantages of the integral equation (IE) method, which allows one to incorporate the treatment of large free space regions.

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