Abstracts

Time-domain model synthesis of microstrip

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The time-domain model of a microstrip line is synthesized by means of deconvolution of response voltages and currents simulated by finite-difference time-domain (FDTD) method. With the model, the response voltages and currents of any excitation of the line with any loads can be easily and rapidly simulated, instead of using time-consuming FDTD again. This model has been applied to simulate the responses of several excitations and the voltage response of a diode terminating the microstrip line. The results show good agreement with the direct FDTD simulation.

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