



# 2-D Electromagnetic Simulation of Passive Microstrip Circuits

*Alejandro D. Jimenez*

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## **Global Demand for Streamlined Design and Computation**

The explosion of wireless communications has generated a tidal wave of interest and development in computational techniques for electromagnetic simulation as well as the design and analysis of RF and microwave circuits.

## **Learn About Emerging Disciplines, State-of-the-Art Methods**

**2-D Electromagnetic Simulation of Passive Microstrip Circuits** describes this simple procedure in order to provide basic knowledge and practical insight into quotidian problems of microstrip passive circuits applied to microwave systems and digital technologies. The text dissects the latest emerging disciplines and methods of microwave circuit analysis, carefully balancing theory and state-of-the-art experimental concepts to elucidate the process of analyzing high-speed circuits. The author covers the newer techniques – such as the study of signal integrity within circuits, and the use of field map interpretations – employed in powerful electromagnetic simulation analysis methods.

But why and how does the intrinsic two-dimensional simulation model used here reduce numerical error?

## **Step-by-Step Simulation Provides Insight and Understanding**

The author presents the FDTD electromagnetic simulation method, used to reproduce different microstrip test circuits, as well as an explanation of the complementary electrostatic method of moments (MoM). Each reproduces different microstrip test circuits that are physically constructed and then studied, using a natural methodological progression to facilitate understanding. This approach gives readers a solid comprehension and insight into the theory and practical applications of the microstrip scenario, with emphasis on high-speed interconnection elements.



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