

Abstracts

Electromagnetic Modeling of Passive Circuit Elements in MMIC

D.C. Chang and J.X. Zheng. "Electromagnetic Modeling of Passive Circuit Elements in MMIC." 1992 Transactions on Microwave Theory and Techniques 40.9 (Sep. 1992 [T-MTT]): 1741-1747.

A spatial-domain mixed-potential integral equation method is developed for the analysis of microstrip discontinuities and antennas of arbitrary shape. The algorithm is based on roof-top basis functions on a rectangular and triangular mixed grid and analytical evaluation of the quadruple moment integrals involved. The algorithm is successfully implemented into an accurate, efficient and versatile computer program. The numerical results agree with the measured ones very well.

 [Return to main document.](#)