Abstracts

Improved design of passive coaxial components using electromagnetic 2-D solver in an optimization loop

P. Miazga and W. Gwarek. "Improved design of passive coaxial components using electromagnetic 2-D solver in an optimization loop." 1997 Transactions on Microwave Theory and Techniques 45.5 (May 1997, Part II [T-MTT]): 858-861.

In this paper a new approach to the design of passive coaxial components, based on finite-difference time-domain (FDTD) electromagnetic (EM) analysis in an optimization loop is presented. A specialized coaxial EM solver has been modified for combined use with three optimization methods. Algorithms proved to be accurate and effective producing significantly improved circuits designs in a reasonable computing time. Practical examples illustrate advantages of the present approach.

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