

Abstracts

Static analysis of arbitrarily shaped conducting and dielectric structures

S.M. Rao and T.K. Sarkar. "Static analysis of arbitrarily shaped conducting and dielectric structures." 1998 Transactions on Microwave Theory and Techniques 46.8 (Aug. 1998 [T-MTT]): 1171-1173.

In this paper, a simple and efficient numerical procedure is presented to compute the charge distribution and capacitance of conducting bodies in the presence of dielectric structures of arbitrary shape and finite size. The method presented is robust and provides accurate results for both low as well as high dielectric-constant materials as supported by numerical examples.

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