

Abstracts

A Monte Carlo Procedure for Potential Theory Problems

G.M. Royer. "A Monte Carlo Procedure for Potential Theory Problems." 1971 Transactions on Microwave Theory and Techniques 19.10 (Oct. 1971 [T-MTT]): 813-818.

A Monte Carlo Procedure is presented which can be used to solve electrostatic and TEM-mode transmission-line problems. A modification of the known Monte Carlo procedures is given, which makes it possible for the method to be used when the dielectric is inhomogeneous. Two sources of error are investigated; a partial correction is given for one, and it is shown how the probability confidence limits for the other can be computed.

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