Abstracts

Proposal for a Boundary-Integral Method Without Using Green's Function

N. Kishi and T. Okoshi. "Proposal for a Boundary-Integral Method Without Using Green's Function." 1987 Transactions on Microwave Theory and Techniques 35.10 (Oct. 1987 [T-MTT]): 887-892.

A new method for solving electromagnetic boundary-value problems is presented. The new method is a modification of the conventional boundary-element method; the conventional method is modified by using the reciprocity theorem derived from Green's identity, making the use of Green's function unnecessary. To confirm the validity of the new method, numerical analyses are presented for Dirichfet- and Neumann-type boundary-value problems of a two-dimensional scalar wave equation.

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