

Abstracts

Application of Boundary-Element Method to Electromagnetic Field Problems (Short Papers)

S. Kagami and I. Fukai. "Application of Boundary-Element Method to Electromagnetic Field Problems (Short Papers)." 1984 Transactions on Microwave Theory and Techniques 32.4 (Apr. 1984 [T-MTT]): 455-461.

This paper proposes an application of the boundary-element method to two-dimensional electromagnetic field problems. By this method, calculations can be performed using far fewer nodes than by the finite-element method, and unbounded field problems are easily treated without special additional consideration. In addition, the results obtained have fairly good accuracy. In this paper, analyzing procedures of electromagnetic field problems by the boundary-element method, under special conditions, are proposed and several examples are investigated.

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