

Abstracts

An Iterative Approach to the Finite-Element Method in Field Problems

W. Kinsner and E. Della Torre. "An Iterative Approach to the Finite-Element Method in Field Problems." 1974 Transactions on Microwave Theory and Techniques 22.3 (Mar. 1974 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 221-228.

An iterative approach to the finite-element method is presented. Several finite-element formulations are presented for the Laplace, Poisson, and Helmholtz equations. These formulations permit iterative solutions. The convergence of the vector sequences generated by the iterative method is accelerated using successive extrapolation and other methods. Accuracy and convergence of the solutions are discussed.

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