Abstracts

Finite Element Solution of Open Region Electrostatic Problems Incorporating the Measured Equation of Invariance

In this work, we utilize the finite element technique to open region problems in conjunction with the truncation condition based on the measured equation of invariance (MEI) concept. The major advantage of the present scheme is a significant reduction in the number of unknowns while retaining the sparsity of the generating matrix. Typical numerical results are presented for the solution of Laplace's equation to illustrate the accuracy of the technique.

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