Abstracts

Computation of Electromagnetic Fields in Large Biological Bodies by an Iterative Moment Method with a Restart Technique

The computation of EM fields in a large, three-dimensional arbitrarily shaped dielectric or biological body is made practical by a conjugate gradient algorithm with a restart technique. This algorithm allows the operator to run the program for large bodies in a measured and controlled manner. It is clarified that in achieving convergence, a good initial guess plays only a very minor role while the g/sup (n)/ and A/sup (n)/ functions are crucial to the convergence in the conjugate gradient algorithm and must be included in the restart.

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