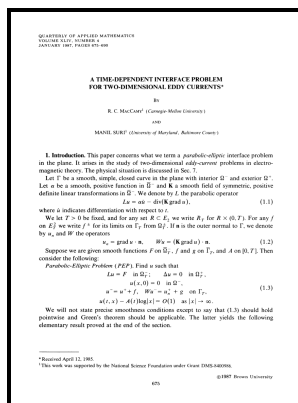


Solving time-dependent two-dimensional eddy current problems

National Aeronautics and Space Administration - Finite Element Differential



Description: -

Eddy currents (Electric)

Maxwell equations. Solving time-dependent two-dimensional eddy current problems

NASA technical memorandum -- 100875 Solving time-dependent two-dimensional eddy current problems

Notes: Microfiche. [Washington, D.C.? : National Aeronautics and Space Administration], 1988. 1 microfiche.

This edition was published in 1988



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Tags: #Phys. #Rev. #A #42, #6831 #(1990)

AMS :: Quarterly of Applied Mathematics

The problem is discretized using linear edge shape functions with 2269 in space and on a fine equidistant time grid with 2 14 intervals using backward Euler to resolve the pulses. For simplicity, a two-dimensional transverse magnetic field which is incident on an infinitely long conductor is considered.

Phys. Rev. A 42, 6831 (1990)

As an illustration, we use this optimal basis-set expansion to solve a simplified two-dimensional free-electron laser model that can be formulated in terms of a TDS equation. Two-scale homogenization of the nonlinear eddy current problem with FEM. MacCamy, Integral equation procedures for eddy current problems, J.

Phys. Rev. A 42, 6831 (1990)

In a symmetrical stator winding, the MMF harmonic components are phase-belt harmonics with order of $2q \pm 1$, stator slot harmonics with order of $N_s \pm p$, and rotor slot harmonics with order of $N_r \pm p$. A nonlinear time domain homogenization technique for laminated iron cores in three-dimensional finite-element models. Proofs of completeness and optimization prescriptions are given in a general way, suggesting that this technique can be used to solve a broad class of TDS equations.

Phys. Rev. A 42, 6831 (1990)

The level of discretization of the volume of the calculated area is schematically shown in Fig.

CiteSeerX — A Backward Euler

IEEE Transactions on Magnetics, 2010, vol. These include scattering from composites and lossy dielectrics as well as modeling of flaws and inclusions.

Finite Element Differential

The analysis of the B field is very critical to understand the harmonic components of electromagnetic forces since the electromagnetic forces are often found to be the major noise and vibration source in many cases.

Multigrid

Dependences of specific losses in the laminated model from flux density Caption: Fig.

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