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## Eddy Currents Linear Nonlinear Media

**linear and nonlinear image restoration methods for eddy ...** - linear and nonlinear image restoration methods for eddy current nondestructive evaluation bing wang:12 john p. basart,12 and john c. moulderl lcenter for nde 2department of electrical and computer engineering iowa state university ames,ia 50011 introduction eddy current nondestructive evaluation (nde) is one of the most important nde techniques.

**transient finite element simulation of non-linear eddy ...** - transient finite element simulation of non-linear eddy current problems with biot-savart-field of voltage-driven coils k. hollaus, j. schoberl, and h. silm technische universitat wien, a-1040 vienna, karl.hollaus@tuwien a method is presented to carry out a transient simulation of eddy current problems with nonlinear materials. **two-scale homogenization of the nonlinear eddy current ...** - homogenization methods for eddy current problems have been presented for instance in [7]. previous works [8] - [9] were restricted to linear materials. in the present work a two-scale finite element method (tsfem) has been developed with the magnetic vector potential describing eddy currents in laminated iron with a nonlinear magnetization ... **an efficient eddy current model for nonlinear ...** - an efficient eddy current model for nonlinear maxwell equations with laminated conductors/xue jiangy and weiyang zhengz abstract. in this paper, we propose a new eddy current model for the nonlinear maxwell equations with laminated conductors. direct simulation of three-dimensional (3d) eddy currents in **nonlinear eddy current nde and theory based on vector ...** - for linear materials, while becoming non-vanishing and  $i$ -dependent for nonlinear materials. at qnde, 2010, c.c.h. lo and the present author demonstrated successful applications of the nonlinear eddy current (nlec) nde to surface layer characterizations of ferromagnetic samples, where the nonlinearity indicator **dynamics of a rotating system with a nonlinear eddy ...** - fig. 1 layout of the rotating system with an eddy-current damper loss of periodicity is analyzed by use of floquet theory. results obtained from the complete nonlinear model are compared with **linear and nonlinear rogue wave statistics in the presence ...** - arxiv:1207.2162v1 [nlin] 9 jul 2012 linear and nonlinear rogue wave statistics in the presence of random currents l. h. ying,1 z. zhuang2, e. j. heller,3 and l. kaplan,1 1department of physics and engineering physics, tulane university, new orleans, louisiana 70118, usa **calculation of eddy currents in metal samples** - calculation of eddy currents in metal samples ausgeföhrt am institut für experimentalphysik ... if the material is nonlinear (e.g. ferromagnetic), the permeability  $\mu$  is a function of  $b$ .  $h$   $b(h)$   $\mu = (5)$  however, we will consider only linear materials in this project. 7 the relationship between the electric field intensity  $e$  and the current ... **numerical analysis of nonlinear multiharmonic eddy current ...** - numerical analysis of nonlinear multiharmonic eddy current problems\* f. bachinger u. langer j. schöberl april 2004 abstract this work provides a complete analysis of eddy current problems, ranging from a proof of unique solvability to the analysis of a multiharmonic discretization technique. **linear and nonlinear rogue wave statistics in the presence ...** - linear and nonlinear rogue wave statistics in the presence of random currents lev kaplan (tulane university) in collaboration with alex dahlen and eric heller (harvard) linghang ying and zhouheng zhuang (tulane) october 11, 2011 rogue11: dresden 1 **linear and nonlinear rogue wave statistics in the presence ...** - linear and nonlinear rogue wave statistics in the presence of random currents lev kaplan and linghang ying (tulane university) in collaboration with alex dahlen and eric heller (harvard) zhouheng zhuang (tulane) april 27, 2012 egu 2012: extreme sea waves 1 **accurate time-domain simulation of nonlinear inductors ...** - which suggests that a linear inductor of resistance  $r$  and inductance  $lw$  is connected in series with a nonlinear inductor, whose ferromagnetic core involves nonlinear hysteresis and eddy-current losses. accurate time-domain simulation of nonlinear inductors including hysteresis and eddy-current effects **eddy-current sensors - lion precision** - 2 lion precision st paul n s 8002296544 6514846544 eddy-current sensors an eddy-current sensor system basics an eddy-current sensor produces an alternating magnetic field at the probe tip. when this field is near a conductive material, the field creates (induces) small electrical eddy-currents in the material.

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