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2d Transient Magnetic Field Analysis

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TRANSIENT MAGNETIC FIELD ANALYSIS FOR THE LOCALIZATION OF ELECTRICAL FAULTS IN SUPERCONDUCTING COLLARED COILS Piotr Komorowski*, Davide Tommasini CERN, LHC Division, CH-1211 Geneva 23 *Faculty of Physics, Warsaw University of Technology, Warsaw, Poland Abstract The follow-up of the construction of superconducting

TRANSIENT MAGNETIC FIELD ANALYSIS FOR THE LOCALIZATION OF ...

for approximate nonlinearity analysis and hysteresis loop. magnetic flux, magnetic field, magnetization, leakage flux,current, loss, force, stored energy, voltage, eddy current,electric field: DP: Transient magnetic (2D/Ax) A 2D analysis can be run when magnetomotive forces such as current and position of the object are dependent on time.

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GENERAL 2-D TRANSIENT EDDY CURRENT FORCE EQUATIONS FOR A MAGNETIC SOURCE MOVING ABOVE A CONDUCTIVE PLATE By N. Paudel, S. Paul, and J. Z. Bird. Full Article PDF (545 KB) Abstract: When a magnetic source is moved and/or oscillating above a conductive linear plate a traveling time varying magnetic field is created in the airgap.

PIER B Online - General 2-D Transient Eddy Current Force ...
Getting Started with Maxwell: A 2D Magnetostatic Solenoid Problem Introduction 1-3 The following figure shows the finite element mesh that was automatically generated for the 2D geometry: Dividing a structure into many smaller regions (finite ele-ments) allows the system to compute the field solution sepa-rately in each element.

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harmonic and transient magnetic analysis are required. We suggest studying one single turn coil example made of a conducting massive coil, an optional conducting field shaper and an internal conducting tube supposed to be deformed. Due to a cut within the toroidal coil between the two terminals, it is rigorously a 3D

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applications. A diffusion of the magnetic field into the materials occurs in 3D transient situations. The distribution of the magnetic field inside objects typically has a number of spatial harmonics, which usually means the time step used in the analysis should be less 7 (sometimes

Analysis of the Magnetic Flux Density, the Magnetic Force ...
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