

ENGINEERING TOMORROW

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DIGITALIZATION

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Ansys Electronics Desktop 2024 R1 Course:

Ansys Maxwell:

- **Day 1:**
-**Intro FEM:** Exploring the finite element method and Ansys Maxwell for a fundamental understanding of these essential concepts;

-**Workflow:** A brief overview of the Maxwell workflow, highlighting key simulation steps for a streamlined understanding of its application in diverse fields, particularly in EM fields and device design;
- **Day 2:**
-**Magnetostatic solver:** An exploration into the Magnetostatic solver, focusing on the analysis of results produced by this specific project type;

-**W.S.2.1: 3D Magnetostatics:** Overview and Outline - Coil and Magnet Maxwell Torque Simulation;
- **Day 3:**
-**Eddy Current solver:** Eddy Current Solver Overview;

-**W.S.3.1: Eddy Current Analysis:** This workshop explores the Eddy Current solver based on a simple example with a disk above a coil;

Ansys HFSS:

- **Day 4:**
-**Intro:** Introduction to Ansys HFSS solver, its GUI and the capabilities ;

-**W.S.4.1: Band Pass Filter:** Studying of a Band Pass Filter using Ansys HFSS ;
- **Day 5:**
-**Boundaries and Simulation Space :** Deepening boundary conditions and simulation space in HFSS;

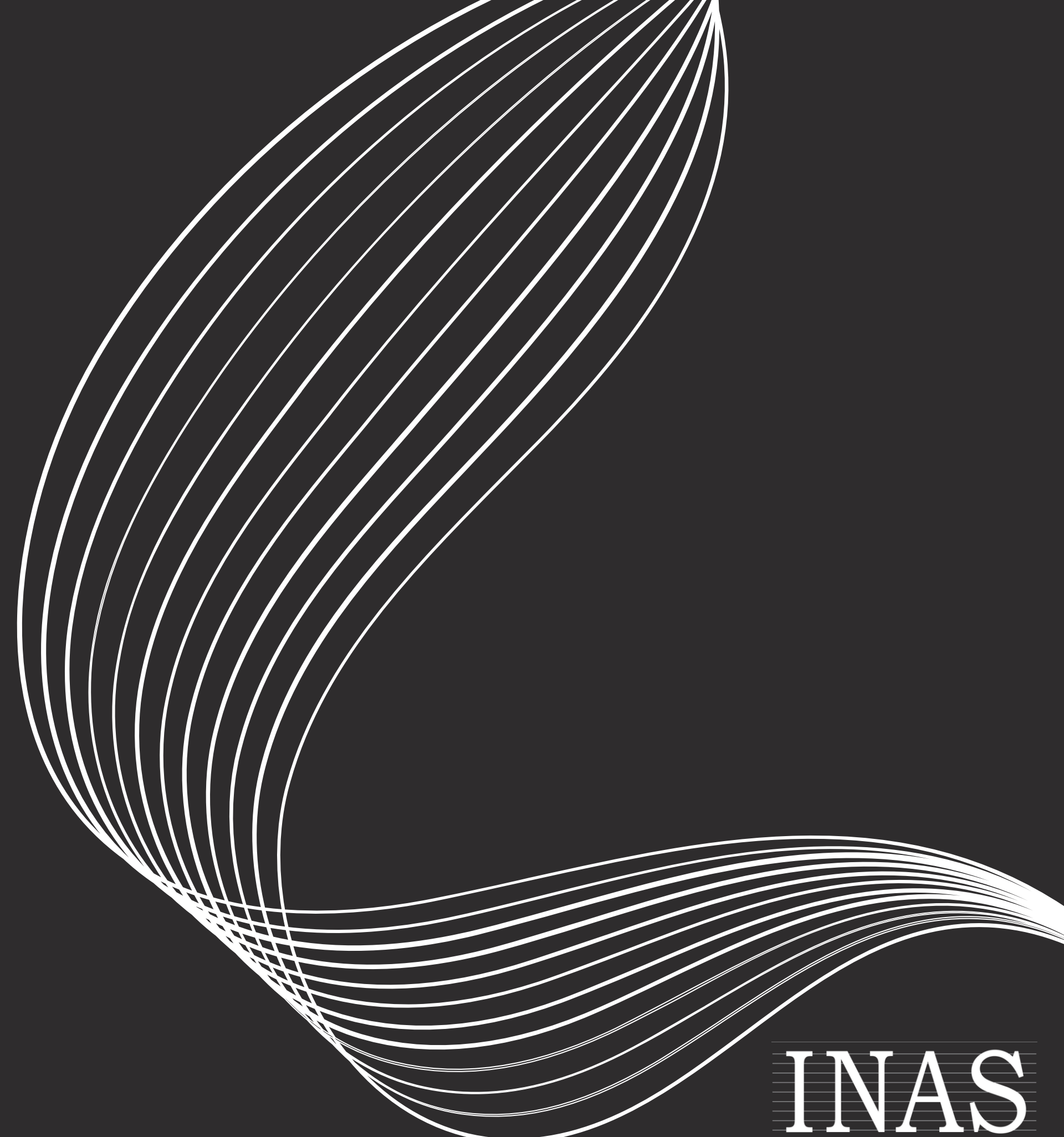
-**W.S.5.1: Assigning Finite Conductivity Boundary Band Pass Filter:** This workshop changes the default PEC boundary on the HFSS band pass filter example to finite conductivity with aluminum properties ;
- **Day 6:**
-**W.S.6.1: Microstrip Bend Geometry Construction:** This HFSS workshop starts with a completely blank HFSS project and builds a microstrip transmission line with a right-angle bend. The structure is inherently parameterized as geometries depend upon one another.

-**W.S.6.2: Coax Bend Finite Conductivity Boundary:** This workshop changes the default PEC boundary on the HFSS coaxbend example to finite conductivity.

Ansys Motor-CAD:

- **Day 7:**
-**Starting with Motor-CAD:** Introduction to Ansys Motor-CAD solver, its GUI and capabilities;
- Electromagnetic Model:** Motor-CAD E-Magnetic ;
- **Day 8:**
-**Electromagnetic Analysis:** simulation of the previously created model and post-processing stage;
- **Day 9:**
-**Thermal Model:** creation and analysis of a thermal Motor-CAD model;

THANK YOU!



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