Ansys HFSS Getting Started

Universidad de Granada
Departamento de Electrónica y Tecnología de Computadores

Introducción a HFSS

Release 2020 R2

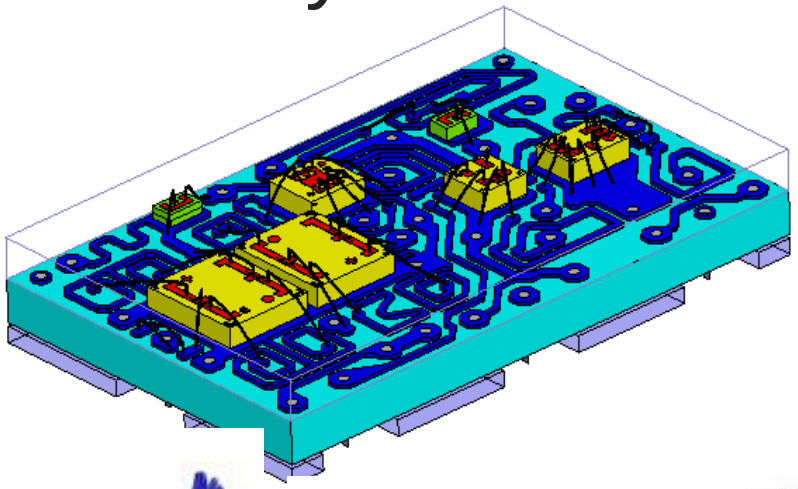
Simulación Electromagnética con ANSYS para el diseño electrónico

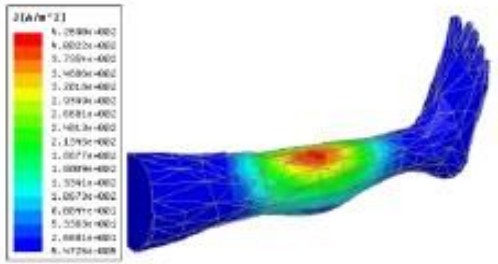
1ª Edición

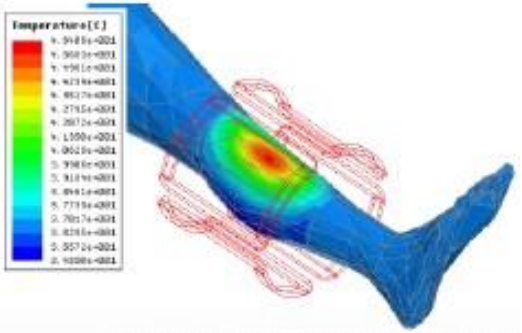
Prof. Andrés Roldán Aranda

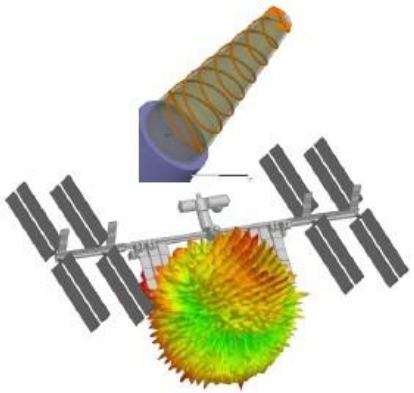
Overview of HFSS

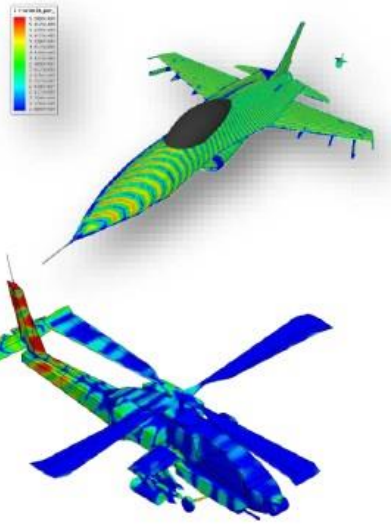
- Capabilities and key features



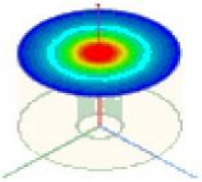




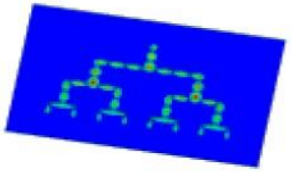




Capacidades HFSS

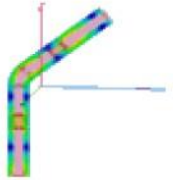


Coaxial Resonator

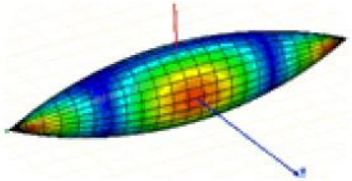


Corporate Feed

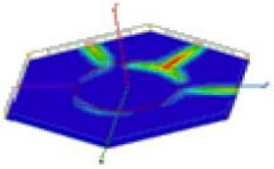
- Full-wave frequency-domain **3-D field solver** based upon finite element method
  - Industry-standard accuracy
  - Adaptive meshing of arbitrary geometry
  - Fully parametric modeling
  - Optimization and HPC
  - Multi-physics via Ansys Workbench
- Widely used for **RF/microwave design**
  - Antenna design and platform integration
  - Filters and waveguide structures
  - Electronic packages and PCBs
  - Connectors and transitions
  - EMC/EMI
  - Radar cross-section
- Integrated into **Ansys Electronics Desktop**
  - Part of Ansys Electromagnetics Suite



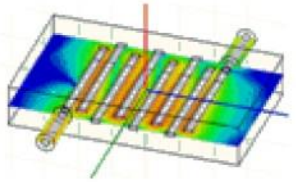
Parametric Sweep of Coax Bend



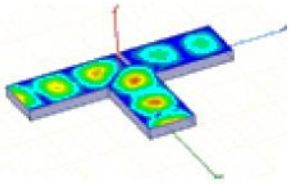
Ogive – IE



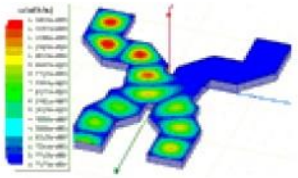
Ring Hybrid



Bandpass Filter



Tee and Optimum Tee



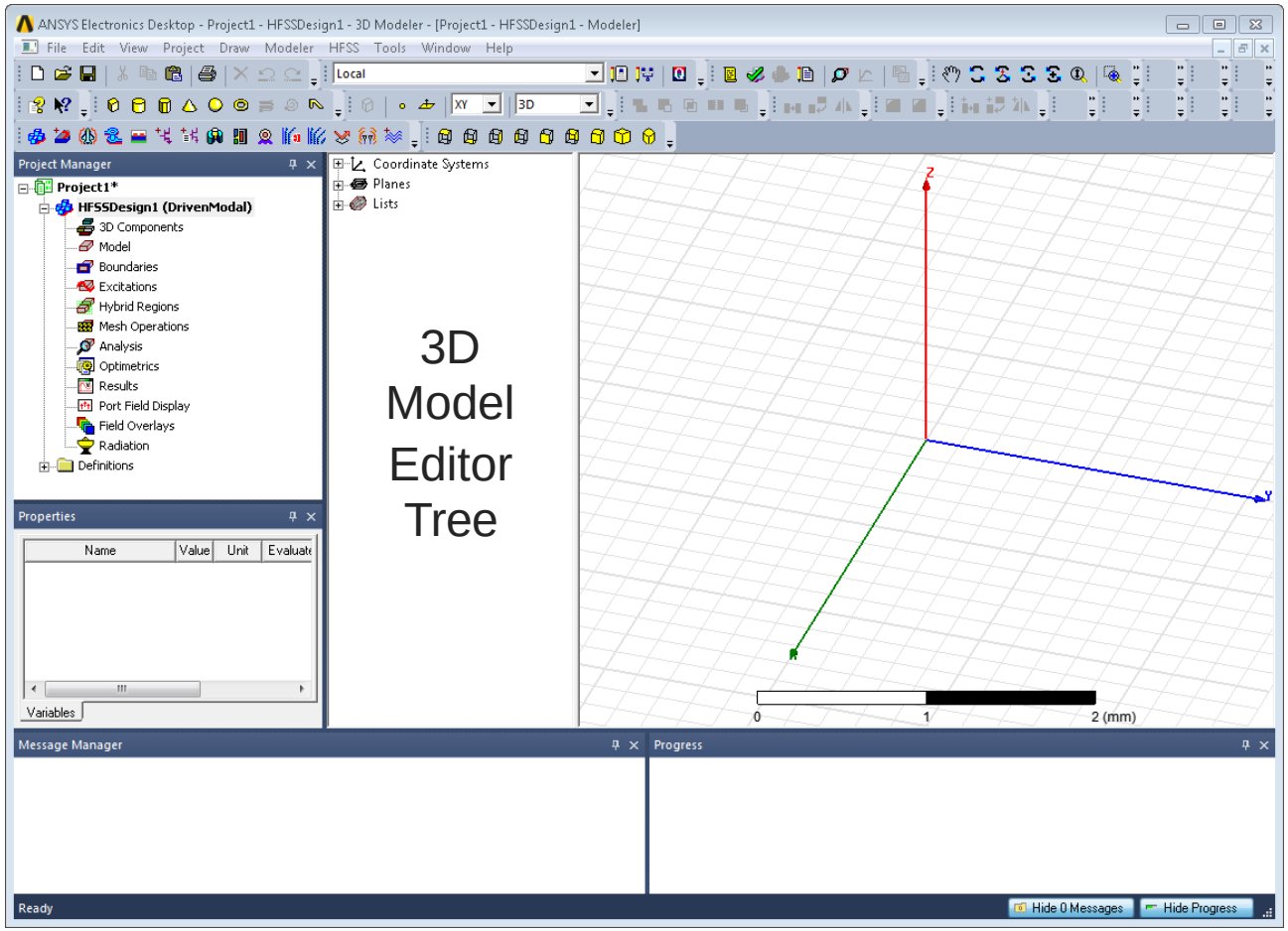
Combiner

HFSS User interface - Electronics Desktop

Project Manager

Properties

Message Manager



3D Model Editor Tree

Toolbars

3D Model Editor Graphics

Progress Window

Más contenidos en el Curso