ANSYS HFSS

ANSYS simulation technology enables you to predict with confidence that your products will thrive in the real world. Customers trust our software to help ensure the integrity of their products and drive business success through innovation.

Industry Standard Full Wave, Electromagnetic Field Simulation
HFSS sets the gold-standard for accuracy, advanced solver and high-performance computing technology, making it the ‘go to’ tool for engineers designing high-frequency and high-speed electronics found in communication systems, radar systems, satellites, smart phones and tablet devices.

Rigorous Validation
Sign-off quality high-frequency EM results that allow customers to simulate and go straight to manufacturing. With HFSS, engineers can extract parasitic parameters (S, Y, Z), visualize 3D electromagnetic fields (near- and far-field) and generate Full-Wave SPICE™ models that link to circuit simulations.

Easy to Use, Versatile and Fast
Features such as automatic adaptive meshing, versatile design entry and advanced high-performance computing technology put analyst-quality solvers in the hands of the designer.

Ooma saved 50 cents on each of hundreds of thousands of devices by using ANSYS HFSS and other ANSYS solutions to design a DDR3 subsystem that does not require a termination voltage regulator.

Synapse Product Development used HFSS and the ANSYS human body model to evaluate the performance of various antenna designs by modeling the complete system, including the wireless device and antenna and their interactions with the human body.

Vortis engineers reduced the time required to customize the antenna design for a specific phone by up to 90 percent using ANSYS HFSS.
ANSYS Multiphysics solutions help cross-functional engineering organizations predict the performance of complex products influenced by multiple physics and improve their designs through simulations of the interactions between physics.

Raytheon engineers used ANSYS HFSS to compute the full electromagnetic field structure of a microwave antenna, and then coupled the HFSS model to ANSYS Mechanical to perform a transient thermal simulation.