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the hfss getting started course introduces the ansys electronic desktop and familiarizes brand new hfss users with the graphical user interface gui and all of the steps in the hfss workflow geometry construction boundaries and simulation space wave and lumped ports solution setup frequency sweep and post processing since the inception of ansys high frequency structure simulator hfss in the late 1980 s thousands of engineers have used hfss in the analysis of electromagnetic components the document an introduction to hfss chapter 1 fundamentals of hfss section mathematical method used in hfss gives a good technical description of the hfss finite element solution process touching green s functions and maxwell s equations ports are excitations that provide fields and s parameters two main port types are wave ports and lumped ports ports can be used to compute network parameters s y and z parameters and field information both wave and lumped ports can be defined on a 2d surface in an hfss model by following the steps in this guide you will learn how to perform the following tasks in hfss draw a geometric model modify a model s design parameters assign variables to a model s design parameters specify solution settings for a design validate a design s setup run an hfss simulation create a 2d x y plot of s parameter results ansys hfss is a 3d electromagnetic em simulation software for designing and simulating high frequency electronic products such as antennas antenna arrays rf or microwave components high speed interconnects filters connectors ic packages and printed circuit boards hfss uses a defined fem computational volume in order to model physical devices with unbounded radiation into space hfss uses finite boundaries that absorb the radiation by absorbing the radiation and removing it from the simulation volume the absorbing boundaries model energy radiating away hfss is a high performance full wave electromagnetic em field simulator for arbitrary 3d volumetric passive device modelling that takes advantage of the familiar microsoft windows graphical user interface here i have shown some basic design steps for hfss this will be quite useful for beginners please like comment and subscribe by following the steps in this guide you will learn how to perform the following tasks in hfss 1 draw the geometric models 2 add the boundaries and excitation 3 specify solution setting for the design 4 run hfss transient simulation 5 create plots for the results for basic design tutorials using hfss ansys hfss is an industry standard tool for simulating 3 d full wave electromagnetic fields students registered in eng451 can get free access to ansys hf package from the university of

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