PathWave RF Synthesis (Genesys) Training

Keysight Technologies invites you to join our training on PathWave RF Synthesis Genesys Training

Overview

You will learn:

- The Genesys user interface, features, schematic capture, simulation setup and results display.
- Linear and Non-linear Circuit simulation and Synthesis of different kind of filters
- Electromagnetic Simulation (Momentum)
- System Simulation (WhatIF and Spectrasys)

Course Type: User/Application Training

Audience: Engineers, designers, and high-level technicians, who need Genesys for design, testing and characterization of circuits and systems.

Prerequisites: A basic understanding of circuit and system design principles.

Course Length: 3 days, 8 hours per day.

Course Format: The course combines lecture presentations with instructor guided, hands-on sessions.

PathWave RF Synthesis (Genesys) Training

Date: TBD

Delivery: Virtual/Onsite

Cost: Please contact us for pricing at: eda.training@keysight.com

Language: English





Schedule

PathWave RF synthesis (Genesys) Training

Day 1

Circuit Simulation and Syntheses

- · Learn the Genesys Basics
- · Get familiar with the Genesys User Interface
- · Experience the power of the filter synthesis tools
- · Create lumped and distributed filters
- · Linear and Nonlinear Analysis and Managing Data
- Investigate an Amplifier by linear and nonlinear simulation
- · Overview of Library and Model management
- Using S-Data and SPICE-models
- · Create your own libraries and parts

Day 2

Electromagnetic Simulation

Introduction into Momentum

- · Theory and typical application
- · Design Flow incl. Circuit-EM-Co-Simulation

Momentum simulation capabilities

- · Simulation Modes and Options
- · Investigating the different EM-Ports

Antenna simulation and Interface to EMPro

- Create a Dipole antenna and display Far Field Pattern
- · Exporting Layouts to EMPro

Day 3

System Simulation

Frequency Planning (WhatIF)

- · Perform frequency planning for different scenarios
- RF-Architecture Design (Spectrasys)
- Setting up a RF-System and investigate results
- · Typical System-Applications
- · Create and investigate a complete FM-Receiver

Modulated RF analysis for systems (Spectrasys)

· Simulate a Digitally Modulated TX Hybrid Amplifier

Learn more on our trainings: www.keysight.com/us/en/products/services/education-services. For more information on Keysight Technologies' products, applications, or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus. For registration or information contact your training center at eda.training@keysight.com.

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

