PathWave SystemVue Training Class for Phased Array Antenna Design, Beamforming Dataflow and 5G New Radio

Keysight Technologies invites you to join our training on SystemVue training class for Phased Array Antenna design, Beamforming dataflow and 5G New Radio

Overview

You will learn:

- Quickly set up various phased array systems and configurations.
- Easily analyze various phased array systems and configurations.
- About the various measurement and statistical evaluations available.
- To make meaningful, 3D plots.
- To link your dataflow design with the phased array design using the RF Link PhasedArray co-simulation component.
- To set up, configure and analyze various beamformer architectures.
- To easily simulate different antenna array configurations.
- To extract the correct measurements from these.
- To configure 5G NR sources for various bandwidths and numerologies.

Course Type: User/Application Training

Audience: Designers

Course Length: 2 days, 8 hours per day.

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

PathWave SystemVue training class for Phased Array Antenna design, Beamforming dataflow and 5G New Radio

Date: TBD

Delivery: Virtual/Onsite

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

Language: English

KEYSIGHT

PATHWAVE

Schedule

SystemVue training class for Phased Array Antenna design, Beamforming dataflow and 5G New Radio

Day 1

SystemVue Phased Array
- Introduction to the Phased Array Analysis
- Setting up Analysis
- Tx and Rx Modes
- New Array Parts
- Theory of Operation
- Measurements
- Spectrasys Simulation of a Phased Array design
- Performing Statistical / Monte Carlo Evaluations
- RF Link PhasedArray and Data Flow cosim
- Theory of Operation
- Requirements
- RF Beamforming

Day 2

Introduction to Beamforming in dataflow
- RF and Digital Beamforming Architectures
- Beamforming Weights
- Antenna Array Configuration
- Beam Patterns
- Dynamic and Static 3D Plots and Graphs
- Beam Measurements
- Shared- and Sub-Arrays
- for Multi-Users
- SystemVue Matrix Parts

Introduction to 5G New Radio in SystemVue
- 5G Introduction
- 5G NR Signal Generation

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.

KEYSIGHT