CST Filter 교육

Filter Design and Tuning 해석실습

일시 : 2018년 1월 16일(화)
장소 : 경기도 분당 "CST한국지사"
주최 : CST한국지사

교육 프로그램

시간	교육내용
09:30~10:30	◘ **Introduction of CST products and Applications** ◘ **Built-In Help Mechanisms** ◘ **Basic and Advanced Modeling** Shortcut Icon, View Option, Primitives, Pick Point, Working Coordinate System, Boolean Operations, Basic Modeling, Curve Modeling Tools, Blend and Chamfer Edges, Loft, Shell Solid or Thicken Sheet, Rotate and Extrude Operation, Transform Operation, Slice by UV Plane, Align Object, Bend Sheet...
10:30~12:00	◘ **Planar Filter (Using Time domain solver)** ▪ **Modeling, Simulation Setting** -Edit History list, Edit Macro Materials Properties, Boundary Condition, Waveguide Port, Discrete Port, Field Monitor, Global Mesh Properties, Time domain Solver ▪ **Result Overview** -S-parameter, Smith Charts, Electric Field, Magnetic Field, Power flow, Power Loss Density ▪ **Parameter Sweep & Optimization**
12:00~13:00	◘ **Lunch**
13:00~16:00	◘ **Cavity Filter (Using Frequency domain solver, Eigenmode solver and CST DESIGN STUDIO)** ▪ **Design Specifications for a test vehicle** -Introduction tuning methods, Single cavity analysis ▪ **Modeling, Simulation Setting** -Lumped Element, Local Mesh Setting, Excitation Signal, Probe, Current Monitor, Voltage Monitor, Frequency Domain Solver, Eigenmode Solver ▪ **Result Overview** -S-parameter, Z Parameter, Touchstone Extract -Eigenmode Frequency E/H Field, Surface Current, Energy Density, Q Factor ▪ **Tuning Method 3D/Circuit** - Group-Delay : Group-Delay calculation, Introduction tuning method using Group-Delay results - Port tuning : Port define, CST DESIGN STUDIO overview, Circuits element, Task setting(S-parameter), Space mapping - InverseChirp Z : InverseChirp Z calculation, Introduction tuning method using InverseChirp Z results, Cross Coupling ▪ **Template Based Postprocessing** Group Delay, Inverse Chirp Z-Transform, Coupling Coefficient ▪ **Result Comparison** ▪ **Parameter Sweep & Optimization** ◘ **Power Handling of Bandpass Filters** ▪ **Investgation of E-fields vs Frequency, Field Analysis, Postprocessing**
16:00~17:00	◘ **Mesh overview, Acceleration Techniques Overview, Macro, Project Templates, Open Discussion**

상기 일정은 변경될 수 있습니다.

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