Ozen

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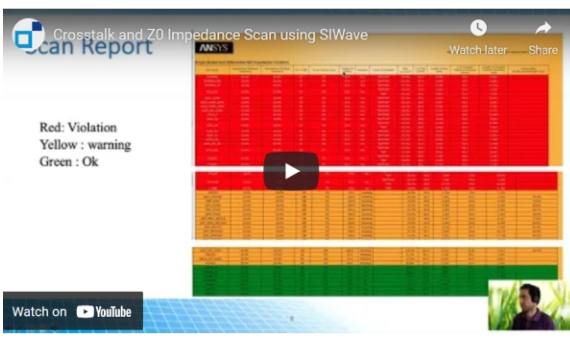
Signal Integrity: Crosstalk and Impedance Scan

YouTube Instructional Video



Crosstalk and Z0 Impedance are important in Signal Integrity. Crosstalk is any unwanted signals in a communication channel (as in a telephone, radio, or computer) caused by transference of energy from another circuit (as by leakage or coupling).

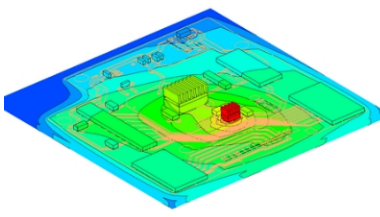
In this video, we studied Crosstalk scan on a PCB by using SIWave. Study is done on both Time domain and Frequency domain. Impedance scan is simulated on the same PCB as well. We used Workflow Wizard, to run the initial checks and verifications.

Watch Video

Consider subscribing to our YouTube Channel to view more instructional video and get alerts when new videos are added.

Ansys 2021 R2:
Signal and Power Integrity Update

August 5, 8:00 AM PT



The 2021 R2 Signal and Power Integrity release introduces significant simulation improvements for electronic printed circuit boards and IC packages. Ansys SIwave delivers new features, including support for temperature-dependent materials in AC solver and an updated thermal link between Ansys Icepak and Ansys Electronics Desktop. Additionally, SI Xplorer will help PCB designers define stackup and optimize transitions such as vias.

What attendees will learn
This webinar spotlights substantial advancements in SIwave.

- Learn how SI Xplorer combines Stackup Wizard and Via Wizard functionality into one tool kit.
- Understand how support for temperature-dependent materials in SIwave's AC solver enables users to modify the conductivity of plane and traces and derate the response of dynamic capacitors.
- Discover how the updated thermal link provides a more robust electrothermal design using Icepak from Electronics Desktop.

Register

Deploying an Efficient Sub-Modeling Strategy with Ansys Simulation Solutions

July 21, 7:00 AM PT

Current trends in simulation show an increased need for the computation of large finite element models. With more of the structure typically being included in the simulation, the analyst faces the dilemma of how to obtain an accurate stress prediction at all important locations.

Large models with small features require a refined mesh in local areas to accurately assess stresses; these models can become too large to run or have very long run times if a mesh-refinement-only strategy is implemented in many areas.

More computational resources could always be thrown at the problem; however, this resource is not always available and a "one large size fits all" approach is not always the most time- or cost-efficient. Therefore, the analyst needs a method of accurately capturing the displacement and load paths in a global (coarse) model and using these results as a boundary condition to drive smaller, higher fidelity models of local regions. This approach is referred to as sub-modeling.

Ansys Workbench provides an easy way to implement a workflow for creating sub-models and linking them to a master global model.

What you will learn
This webinar will highlight the techniques, capabilities, and workflows for implementing an effective sub-modeling strategy. Whether the global and or sub-model consists of beams, shells or solids, Ansys Workbench offers an effective solution for obtaining accurate stress results in large structures with small features.

Register

Did you know?

A bit of trivia to hopefully enlighten your day and amaze your family and fellow engineers.

Did you know:

- one out of ten people lives on an island
- more movies are made in Bollywood than Hollywood
- an espresso has less caffeine than a cup of coffee
- a fresh egg will sink in water, a stale one will float
- the remotest inhabited island in the world is Tristan da Cunha, in the South Atlantic

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Upcoming Ansys Webinars

You can also view all of the upcoming webinars by visiting our Training Calendar.

Fault Injection in Electrified Powertrain Systems
July 20, 2021 - 7:00 AM PDT

Learn how to use the Failure Mode & Effect Analysis (FMEA) toolkit in Ansys Twin Builder to make parametric sweeps by simulating failure in constituent components to identify failures and failure modes.

Flight Design and Lift Force Effects on UAV Wing Structures
July 21, 2021 - 11:00 AM PDT

In this webinar, Jake Gremer uses STK to evaluate the bounding box of requirements for a small UAV design exercise. By defining the mission concepts early in STK, you can understand characteristics based on the operational objectives rather than arbitrarily selected requirements. Directly link your executable mission models to Ansys Mechanical to reevaluate as designs evolve to continually validate design modifications.

Ansys 2021 R2: Ansys HFSS Update
July 22, 2021 - 8:00 AM PDT

This webinar spotlights groundbreaking technologies in Ansys HFSS, which address PCB and 3D-IC package design challenges as well as advancements in antenna design.

Ansys 2021 R2: Embedded Software Solutions for Automotive
July 22, 2021 - 8:00 AM PDT

Explore the latest embedded software enhancements in Ansys 2021 R2 and learn how they will substantially advance automotive embedded software development projects while increasing communication among team members.

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