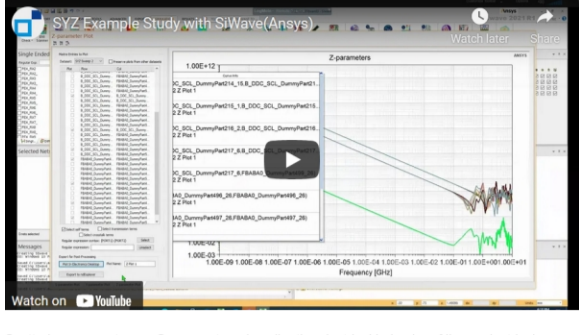


SYZ Parameter Using SiWave

YouTube Instructional Video



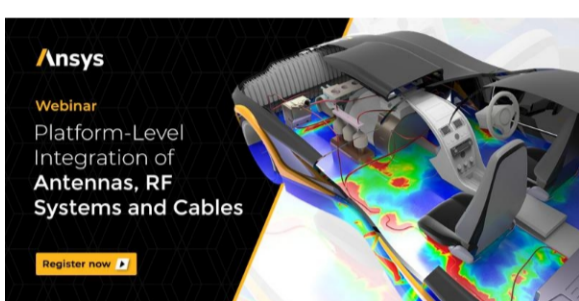
Scattering parameters or S-parameters describe the electrical behavior of linear electrical networks when undergoing various steady state stimuli by electrical signals. S-parameters are analytically convenient; they allow for calculations of system performance by cascading the individual components.

In this video, we used SiWave to calculate S and SYZ parameters. Different methods are shown to generate probes on the PCB and measure SYZ parameter. We also illustrated how to run an initial validation on the PCB, how to identify nets, and how to export results in Ansys Electronic Desktop (AEDT).

[Watch Video](#)

Platform-Level Integration of Antennas, RF Systems and Cables

July 14, 8:00 AM PT



Speakers: Matt Miller and Fred German

Virtually every modern platform includes RF systems for a variety of functions including navigation, communication, surveillance and sensing. These RF systems are connected to antennas via cables routed through the vehicle or any other platform. Integrating these systems on the platform in a way that achieves interference-free operation for all systems is a challenging problem due to close proximity and multiple potential coupling paths.

What you will learn

Join us to learn how advanced simulation software and measurement help you address the challenges of integrating many RF systems and the associated cables, antennas, filters and other RF components into platforms. This webinar is applicable to a wide variety of platforms including automotive, aerospace, naval, rail and electronics.

- Learn how Ansys HFSS, Ansys Siwave, and Ansys EMA3D Cable are used to compute S-parameters between cables, antennas and PCBs.
- Discover how the Automated Radio Measurement System (ARMS) is used to measure broadband performance of transmitters and receivers.
- Understand how EMIT is used to perform system-level analysis incorporating data from simulation and measurement.

[Register](#)

Did you know?

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

Did you know:

- Walmart is the largest employer 21 US states
- the "L.L." in L.L. Bean stands for Leon Leonwood
- the first product that Sony came out with was the rice cooker
- Microsoft made \$16,005 in revenue in its first year of operation
- Columbia University is the second largest landowner in New York City, after the Catholic Church

Upcoming Ansys Webinars

You can also view all of the upcoming webinars by visiting our [Training Calendar](#).

[System Simulation with Critical Software to Address the Future of Electric Flights](#)

July 13, 2021 - 8:00 AM PDT

Learn how a digital safety toolchain based on Ansys SCADE uses a combination of several interoperable solutions to simulate and analyze an electrical aircraft system's behavior early in the development process.

[Integrating 3D Medical Images with Simulation](#)

July 13, 2021 - 8:00 AM PDT

Learn how to generate patient-specific models and populations of anatomical models with Synopsys Simpleware software, and how integration of Synopsys ScanIP into Ansys Workbench facilitates computational modeling with patient-specific anatomy.

[ARA: Using HPC to Speed Ansys Simulations](#)

July 13, 2021 - 8:00 AM PDT

Join us for a special customer experience webinar with special guest CAE engineer Drew Malechuk from ARA, an employee-owned company that provides innovative digital engineering solutions for challenging air-delivered weapons system problems.

[Detailed Thermodynamic Evaluation of Satellite Components \(Including Shadowing\)](#)

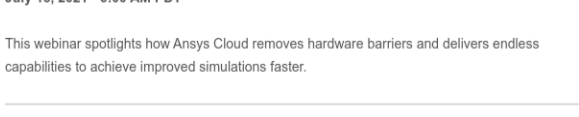
July 14, 2021 - 11:00 AM PDT

In this webinar, Noah Ingwersen highlights STK's ability to link satellite environments to the thermal analysis capabilities of Ansys Mechanical. Satellites present different faces to dominant heat sources depending on their operational orbit and attitude. You should consider the direction of the heat sources, the size and shape of the satellite, and the shadows that geometry creates. Noah demonstrates how connecting STK and Ansys Mechanical enables you to consider this heat flux at a new level of fidelity.

[Accelerate Energy Engineering Simulations with Ansys Cloud](#)

July 15, 2021 - 6:00 AM PDT

This webinar spotlights how Ansys Cloud removes hardware barriers and delivers endless capabilities to achieve improved simulations faster.



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