

Ozen Engineering
Gold Sponsor of Ansys Simulation World

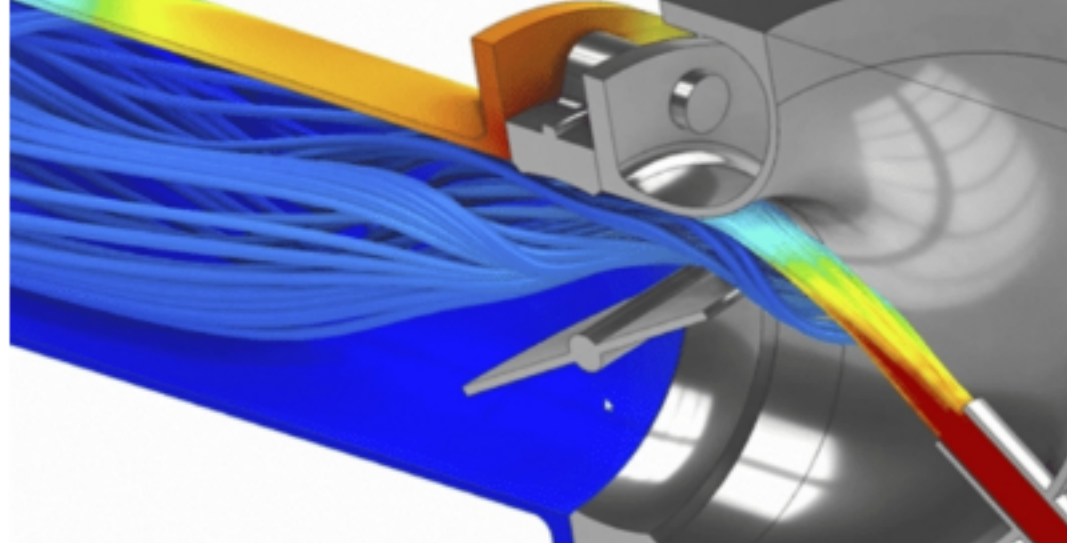
[Register](#) and Join Us at the Virtual Conference

April 20 - 21



Turbo in 15 Minutes:
Simulating Fluid-structure Interaction

April 20, 7:00 AM PDT

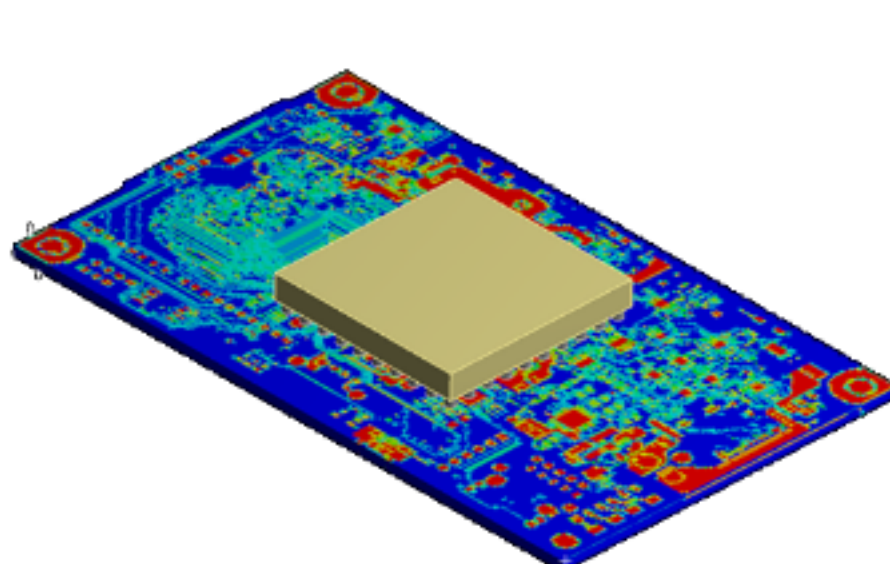


This 15-minute webinar will cover how to set up and run 1-way and 2-way FSI simulations (coupling Ansys CFX, Ansys Fluent and Ansys Mechanical). This demo will show you how to:

- Set up 1-way and 2-way FSI simulations within Workbench and using the standalone System Coupling GUI
- Easily submit 2-way FSI simulations to a job scheduler

[Register](#)

Blog Post & YouTube Video
Random Vibration (PSD) Analysis with Ansys Mechanical



The purpose of random vibration analysis is to determine the response of structures to vibration loads that are random in nature. An example would be the response of a sensitive electronic component mounted in a car subjected to the vibration from the engine, pavement roughness, and acoustic pressure.

The frequency content of the time history (spectrum) is captured along with the statistics and used as the load in the random vibration analysis. This spectrum, for historical reasons, is called Power Spectral Density or PSD. In a random vibration analysis, since the input excitations are statistical in nature, so are the output responses such as displacements, stresses, and so on.

Learn more by viewing our [blog post](#) and watching our instructional [YouTube video](#).

Did you know?

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

Did you know:

- the Moon's diameter is 3,476 km (2,160 miles)
- Earth's diameter is 12,756 km (7,926 miles)
- Jupiter's diameter is 152,800km (88,700 miles)
- the Sun's diameter of 1,390,176 km (864,000 miles)
- if your DNA was stretched out it would reach to the moon 6,000 times

Upcoming Ansys Webinars

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

[Turbo in 15 Minutes: Improving Durability with Aeromechanics](#)

April 15, 2021 - 7:00 AM PDT

Learn how to set up and run aeromechanical simulations, including blade flutter and forced response.

[How Ansys Sherlock's Pre-Processing Engine Creates High-Fidelity Models for Ansys Mechanical & Icepak](#)

April 15, 2021 - 10:00 AM PDT

Learn about a range of pre-processing/modeling techniques available in Ansys Sherlock for addressing the design of geometrically complex PCBs, as well as the relative merits of these approaches, to ensure you are choosing the right level of fidelity for your studies.

[Develop, Test and Validate the Best Driver Monitoring Systems](#)

April 20, 2021 - 8:00 AM PDT

This webinar spotlights how Ansys can help you develop, test and validate the best driver monitoring systems (DMS) for your customers, while simultaneously saving development time and cost.

[Materials Data for Simulation: A Bioengineering Use Case](#)

April 21, 2021 - 8:00 AM PDT

This webinar spotlights how we use the materials selection methodology developed by Prof. Mike Ashby to identify the best material candidates for a hip replacement.

[Turbo in 15 Minutes: Analyzing Acoustics from Your CFD Simulation](#)

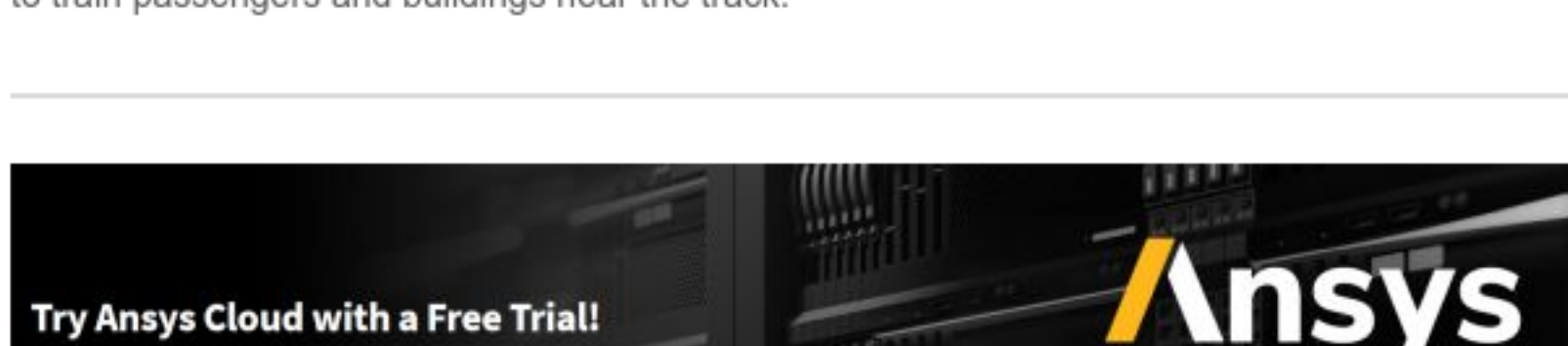
April 22, 2021 - 7:00 AM PDT

Learn how to set up a CFD simulation and simulate the noise produced from a four-bladed quadcopter drone.

[Predicting Vibration from Trains Using Ansys LS-DYNA](#)

April 22, 2021 - 7:00 AM PDT

Learn how to use Ansys LS-DYNA to predict the vibration caused by trains based on wheel and rail roughness modeling. Analyze structural and acoustic vibrations and how they are transferred to train passengers and buildings near the track.



Address	Sales	Support
Ozen Engineering, Inc 1210 E Arques Ave #207 Sunnyvale, CA 94085	P: (408) 732-4665 E: sales@ozeninc.com	P: (408) 732-4665 E: support@ozeninc.com