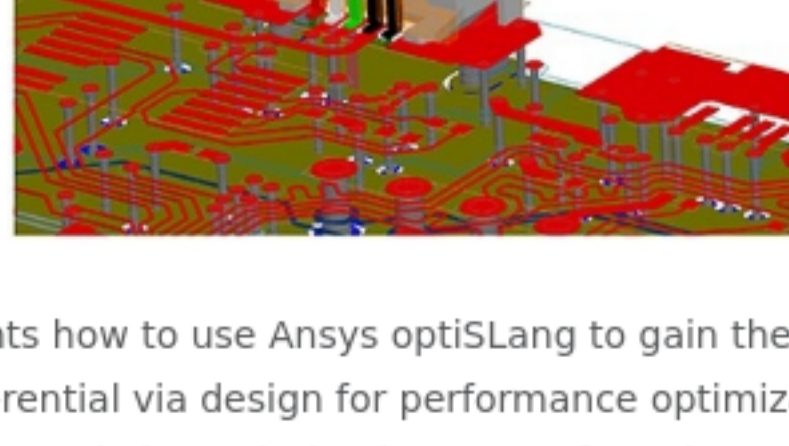


Differential Via Optimization with Ansys HFSS 3D Layout and Ansys optiSLang

March 11, 7:00 AM PST



This webinar highlights how to use Ansys optiSLang to gain the most insight into a HFSS 3D Layout differential via design for performance optimization. Additionally, we will discuss optiSLang's role in analyzing how manufacturing tolerances impact the yield of fabricated devices.

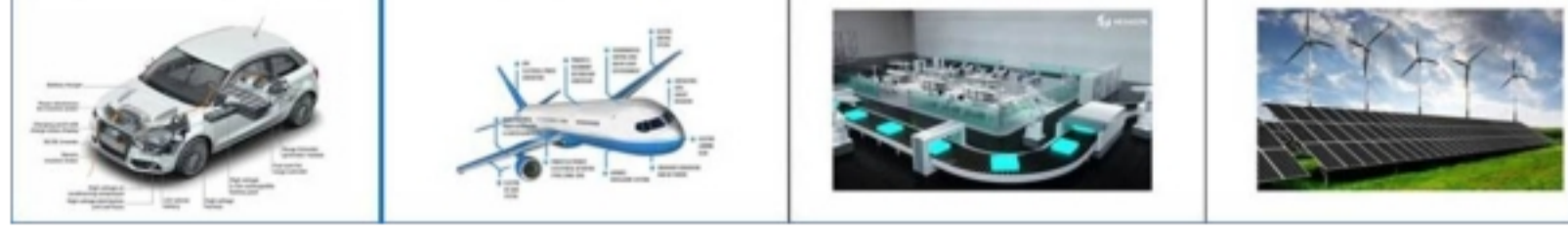
During the webinar, using a sensitivity analysis, optiSLang will create a metamodel describing the differential via performance over all possible geometry combinations in the design space. This metamodel will assess which of the input parameters have the largest impact on the device response, allowing users to narrow the design space. Additionally, the differential via performance will be enhanced using the insight of the metamodel and prevents getting stuck in a local optimum.

Additionally, using robustness analysis in optiSLang, we will explore how manufacturing tolerances will impact the yield of the optimized differential via. The robustness analysis will show what percentage of manufactured devices fails a specified design requirement. This analysis will also indicate which of the manufacturing tolerances must be improved in order to increase the yield.

[Register](#)

Ozen Engineering - Battery Technologies

March 17, 10:30 AM PDT



In recent years, considerable effort and R&D budgets have been put into electrification with the traditional efforts focused on battery improvement.

Currently, electric vehicles (EV) constitute 2.6% of car market but the International Energy Agency (IEA) predicts EV's will achieve 30% market share by 2030.

Additionally, new applications are gaining attention:

- Electrical delivery robots
- Airplanes
- Drones
- Industrial electrification (factories)
- Renewable energy sectors

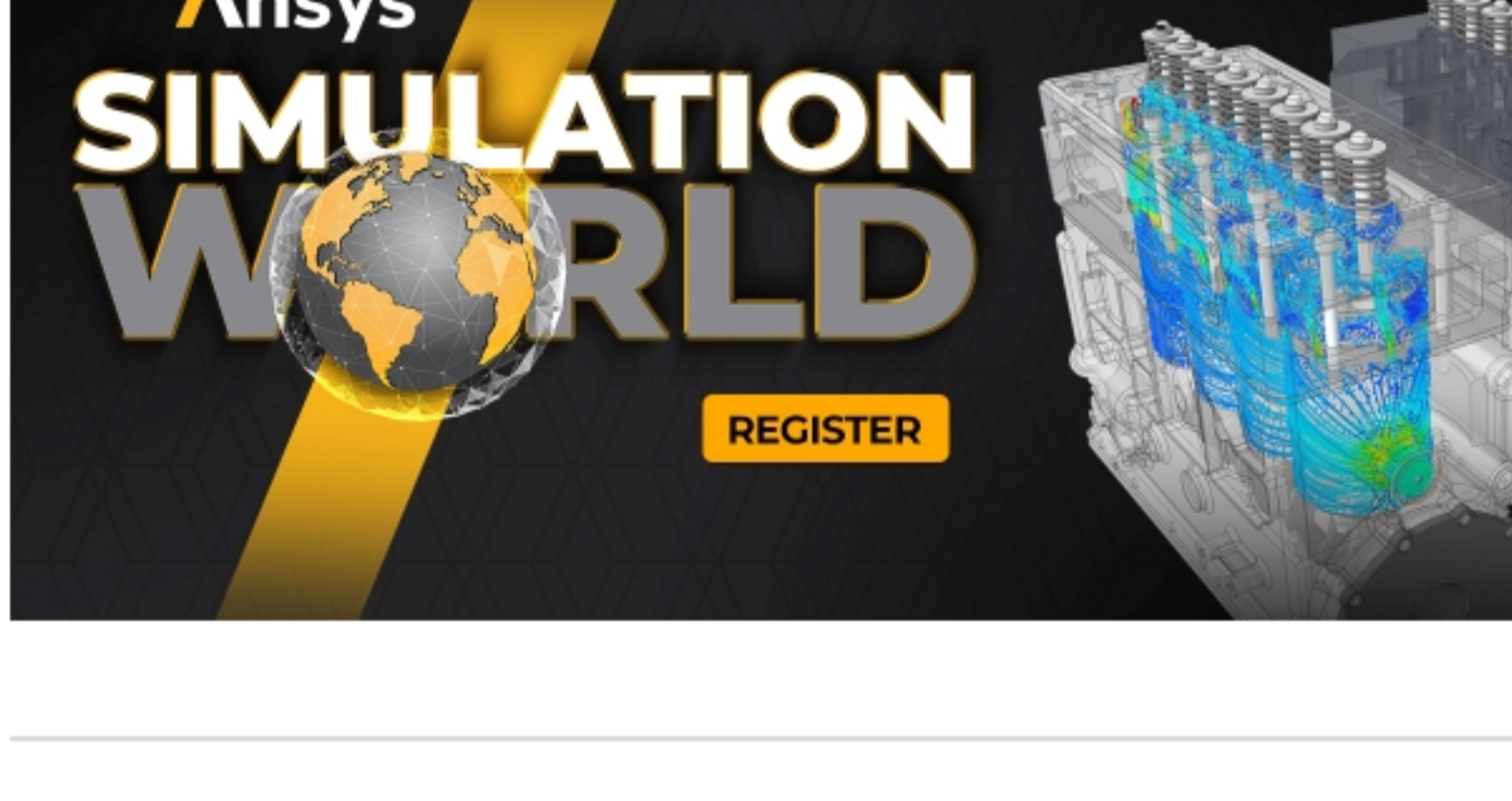
As such, there is a lot of potential and possibilities in the battery field, a very complicated field with its unique challenges and difficulties such as safety, performance, life cycle, etc.

This webinar will cover the following topics to present possibilities, Ansys technical capabilities, and examples of electric vehicle battery systems in operation.

- Battery Market Research
- New Battery Technologies
- Reduced Order Model (ROM) & Digital Twin
- Battery Management System (Ansys Solution)
- System Level Modeling
- Example: Battery Pack with a Fan

[Register](#)

To learn more, visit our [Battery Solutions webpage](#) or our [YouTube video series](#).



Did you know?

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

Did you know:

- the Barbie doll's full name is Barbara Millicent Roberts
- three presidents, all Founding Fathers - John Adams, Thomas Jefferson, and James Monroe - died on July 4
- the tallest man ever recorded was American giant Robert Wadlow (1918-1940), who stood 8 feet 11 inches
- the Four Corners is the only spot in the US where you can stand in four states at once: Utah, Colorado, Arizona and New Mexico
- the original name for the search engine Google was Backrub. It was renamed Google after the googol, which is the number one followed by 100 zeros

Upcoming Ansys Webinars

[Turbo in 15 Minutes: Ansys Turbo Overview](#)

March 11, 2021 - 7:00 AM PST

Learn how Ansys solutions for turbomachinery can help you quickly iterate and improve designs for fans, pumps, compressors, turbines and more.

[Making Double-Digit Repeatability Improvements in Additive Manufacturing a Reality](#)

March 11, 2021 - 8:00 AM PST

Learn how capturing and tracing the data from additive manufacturing builds can help transform your business with the right analytics.

[Centralized Data and Processes for Safety-Critical Development](#)

March 16, 2021 - 8:00 AM PDT

Learn how you can integrate Ansys SCADE, a model-based embedded software development tool, and Ansys Minerva, the Ansys enterprise-level process and data management solution, to provide an effective development platform to meet safety-critical challenges.

[Turbo in 15 Minutes: Generating a High-Quality Mesh](#)

March 17, 2021 - 7:00 AM PDT

Learn how to produce a high-quality mesh for blade passages with automated mesh generation in a simple-to-use, streamlined workplace.

[3 Steps for Optimizing Automotive Performance with Liquid Cooling](#)

March 17, 2021 - 8:00 AM PDT

This webinar highlights how Discovery combines interactive real-time simulation with Ansys flagship technology in one single, user-friendly interface. We will demonstrate how this cutting-edge tool helps you iterate quickly to explore design scenarios faster in your product design process.

[Boost Your Productivity with Ansys Optical Simulation](#)

March 17, 2021 - 8:00 AM PDT

Learn how Ansys SPEOS improves and speeds up design creation, modification and validation. Discover the different tools' ease of use and functionalities to reduce time spent on model preparation and boost your productivity in optical design optimization.

[Reducing Time-To-Market of Additively Manufactured Components by up to 20%](#)

March 18, 2021 - 8:00 AM PDT

Learn how an open architecture allowing for the free flow of AM material data across CAD and CAE tools helps to bring products to market up to 20% faster.

[Predicting PCB Reliability in Complex Systems](#)

March 18, 2021 - 8:00 AM PDT

Learn about PCB reliability specifically in regard to complex systems. We will discuss examples of system-level effects, how you can run system-level analyses and how you can optimize PCB reliability at the component, board and system level.

[Patient-Specific Bone Fracture Surgery Modeling](#)

March 18, 2021 - 8:00 AM PDT

This webinar spotlights how clinicians use Ansys Mechanical to create two patient-specific finite element models for evaluating the optimal fracture reduction and stabilization. Learn how they use Mechanical to model the geometry and behavior of fractured bone material and its interaction with surgical material.



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