

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](#).

Ansys Simulation World

April 20 - 21



Following a record setting inaugural event in 2020, Ansys Simulation World 2021 is designed to inspire and educate executives, engineers, R&D and manufacturing professionals about the transformative powers of engineering simulation.

Ansys Simulation World sits at the intersection of brilliant physics solutions, mission-critical operations and revolutionary technologies. Attendees work with finite element analysis, computational fluid dynamics, electronics, semiconductors, embedded software, design optimization and multi-domain, mission-level software to create answers where there were once only questions. Executive and leadership tracks will reveal and explore the power of simulation to accelerate innovation and productivity.

Don't be left out when engineers, designers and simulation thought leaders from around the globe gather online for Simulation World. It's your chance to network with the best minds in the business — how often do opportunities like that come along?

[Register](#) for free today and join us!

Did you know?

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

Did you know:

- Grapes light on fire in the microwave
- The average U.S. household has 300,000 things in it
- McDonald's once created bubblegum-flavored broccoli
- There are almost 8 million possible seven-digit phone numbers per area code
- Spaghetti, confetto, and graffito are the singular forms of spaghetti, confetti, and graffiti

Upcoming Ansys 2021 R1 Webinars

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

Friendly reminder that Ansys 2021 is now available for download from the [Ansys Customer Portal](#) (registration required).

Learn more about Ansys 2021 R1 by visiting our [Release Highlights webpage](#) or by joining one or more of the upcoming webinars in February (see below).

If you need assistance with downloading or installing Ansys 2021 R1, please contact us at (408) 732-4665 or support@ozeninc.com.

[Ansys 2021 R1: CFX Update](#)

March 9, 2021 - 8:00 AM PST

This webinar highlights every major Ansys CFX enhancement offered throughout the past few releases. New capabilities and innovative features from these releases will help boost productivity and enable more accurate results.

[Ansys SPEOS & Ansys Cloud: Speeding Optical Simulation](#)

March 9, 2021 - 8:00 AM PST

This 30-minute webinar explores how the new connection between Ansys SPEOS and Ansys Cloud accelerates optical simulation time to get your results up to 60X faster.

[Ansys 2021 R1: Multiphase Volume Of Fluid \(VOF\) and Regime Transition Update](#)

March 10, 2021 - 8:00 AM PDT

Ansys Fluent provides the widest range of multiphase models to accurately simulate your toughest challenges. Learn about recent innovations.

More Ansys Webinars

[Deliver Unmatched Safety & Security with Model-Based Engineering](#)

March 10, 2021 - 8:00 AM PST

Learn about Ansys' model-based approach for driving the analysis, development and certification of avionics software. Discover how you can efficiently integrate certification and safety requirements, reduce development costs and accelerate time to market.

[Differential Via Optimization With Ansys HFSS 3D Layout and Ansys optiSLang](#)

March 11, 2021 - 7:00 AM PST

This webinar highlights how to use Ansys optiSLang to gain the most insight into an HFSS 3D Layout differential via design for performance optimization.

[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.

[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.

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

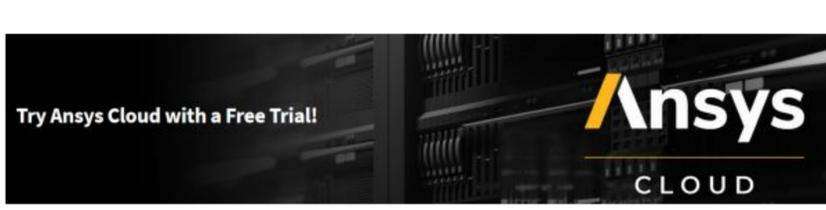
March 18, 2021 - 8:00 AM PDT

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.

[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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