

Ansys 2021 R2 Release Highlights



Improvements in Ansys 2021 R2 products provide the power to explore early stage product design and complex system engineering from the nanometer scale of chip design to the mission level of aerospace and defense operating environments. Ansys' industry-leading simulation solutions provide an open approach that streamlines engineering via simplified workflows, integrated data management and easy access to high-performance computing (HPC) power via the cloud.

Engineering exploration via simulation is virtually risk free because engineers are no longer bound to an expensive and time-consuming prototype-test-redesign cycle. New design ideas can be virtually evaluated in hours, not weeks, freeing up time to optimize the best design candidates or develop moonshot ideas that redefine markets. With access to nearly limitless computing via Ansys Cloud, engineers who use Ansys 2021 R2 products have the speed and flexibility to ask the "what-if" questions that lead to innovations in autonomous vehicles, chip design, mission-critical connectivity solutions and more sustainable travel via lightweight materials and electrification.

[Learn more](#)

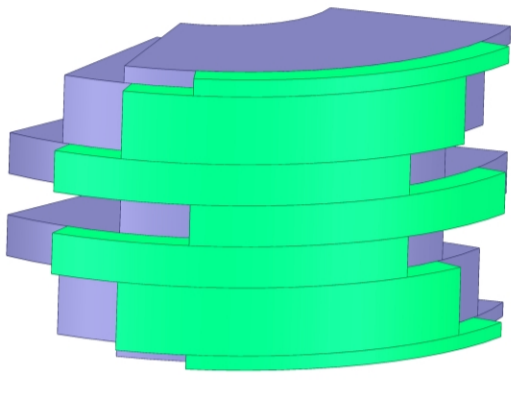
Ansys 2021 R2 is available for download on the [Ansys Customer Portal](#).

If you need assistance with downloading or installing Ansys 2021 R2, please contact us at (408) 732-4665 or support@ozeninc.com.

Learn more about Ansys 2021 R2 by joining one or more of the [upcoming webinars](#).

Ansys 2021 R2: Ansys Maxwell Update

July 29, 8:00 AM PDT



The 2021 R2 Ansys Maxwell release introduces significant improvements in low frequency simulation capabilities and numerous multiphysics enhancements that extend NVH to broader applications.

This webinar provides a deep dive look at Ansys Maxwell's powerful new features.

What attendees will learn

- We will discuss how Maxwell's A-phi solver performs transient multi-conduction path simulation, which enhances the conductive emission for EMC analysis for busbar, power electronics and multi-layer PCBs.
- We will also examine Maxwell's improved and faster 2D skew design capability with V-shape and user-defined skew configurations, enabling designers to define any 3D physical skew topology onto a 2D design while maintaining 3D accuracy of electrical machine performance prediction at the speed of 2D simulation.
- Additionally, we will spotlight numerous multiphysics enhancements to NVH, covering more practical applications, including options of window function for discrete fourier transformation, object-based harmonic force calculation with arbitrary skew slice model and added anisotropic elastic properties for enhanced magnetostriction force modeling.
- Lastly, we will explore enhanced thermal dependency response of permanent magnets, supporting temperature-dependent multiple demagnetization curves.

[Register](#)

Did you know?

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

Did you know:

- humans are the only animals that blush
- the Statue of Liberty has size 879 shoes
- no number before 1,000 contains the letter A
- mushrooms aren't plants, they're fungi, which are actually more like animals than plants
- the longest place name in the UK is Llanfairpwllgwyngyllgogerychwyrndrobwllllantysiliogogogoch, a small town in Wales

Upcoming Ansys Webinars

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

[Ansys 2021 R2: What's New in Ansys Granta Selector](#)

July 29, 2021 - 8:00 AM PDT

This webinar explores how Ansys Granta Selector in our latest release, Ansys 2021 R2, helps engineers early in the design stage make materials tradeoffs and better decisions with the latest materials data available.

[Ansys 2021 R2: Embedded Software Solutions for Aerospace & Defense](#)

July 29, 2021 - 8:00 AM PDT

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

[Best Practices for Running Scalable, Cost-Effective Engineering Simulation Workloads](#)

August 3, 2021 - 8:00 AM PDT

Join Hyperion Research, Ansys and Intel as we explore the challenges data center managers are faced with in today's HPC climate. The speakers will share best practices to optimize infrastructure and the work experience so engineers can perform modeling and simulations.

[Ansys 2021 R2: Advancing Photonic Optimization with Lumerical and OptiSLang](#)

August 4, 2021 - 10:00 AM PDT

This webinar demonstrates the power of the Ansys Lumerical-Ansys OptiSLang integration by optimizing the design of a traveling wave Mach-Zehnder modulator with Lumerical CHARGE, Lumerical MODE and Lumerical INTERCONNECT along with Ansys HFSS.

[Employing a High-Fidelity Phased Array Antenna in Air to Ground Missions](#)

August 4, 2021 - 11:00 AM PDT

This webinar demonstrates the modeling of a high-fidelity phased array antenna from Ansys HFSS in STK mission environment. Using STK's plugin architecture, you can query HFSS for any beam steering necessary to accomplish the mission.

[Ansys 2021 R2: Signal and Power Integrity Update](#)

August 5, 2021 - 8:00 AM PDT

This webinar showcases Ansys SIwave's significant simulation improvements for electronic printed circuit boards and IC packages in the new Ansys 2021 R2 release.

Try Ansys Cloud with a Free Trial!



CLOUD

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