

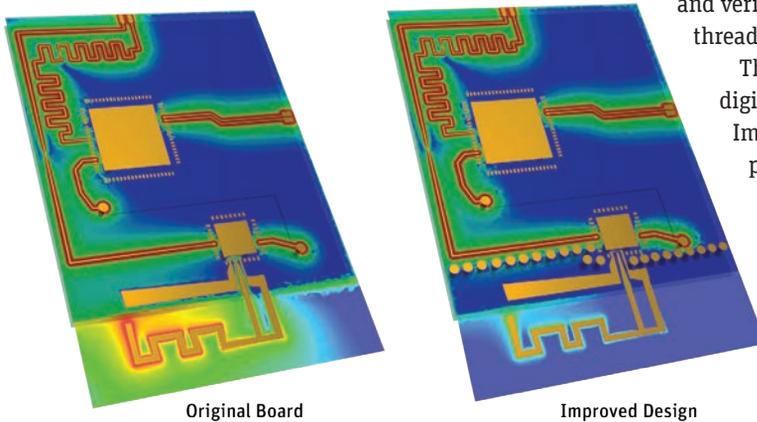
Simulation in the News

ANSYS 2019 R2 STRENGTHENS DIGITAL THREAD CONNECTING DESIGN, ENGINEERING AND MANUFACTURING

DEVELOP3D, JUNE 2019

Digital transformation is impacting every industry. Through groundbreaking digital technologies, hardware and software developers can work together in all phases of the product development cycle and shave years off their product timelines. With new functionalities in ANSYS 2019 R2, including new materials capabilities for structural analysis following the recent acquisition of Granta, ANSYS simulation solutions accelerate collaboration, validation and verification — creating a reliable digital thread connecting all operations.

The latest ANSYS release accelerates digital transformation across every industry. Improvements have been made across all product areas.



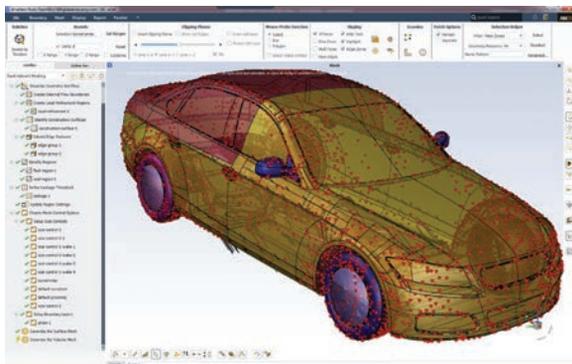
Original Board

Improved Design

The latest release of ANSYS electromagnetics simulation tools focuses on improvements and new simulation capabilities that help engineers design products for 5G, autonomous and electrification technologies.

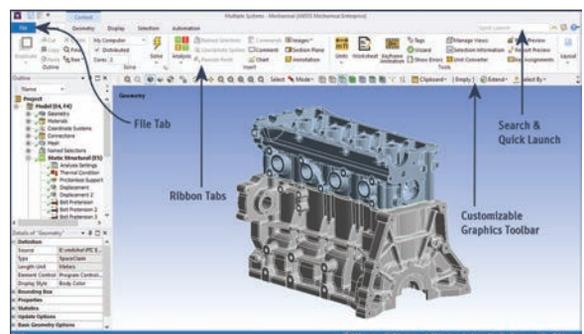


ANSYS VRXPERIENCE continues to lead the autonomous revolution with new features for development, virtual testing and validation of systems. With the new physics-based GPU rendering, you can explore an interactive version of your SPEOS simulation model and obtain immediate results directly.

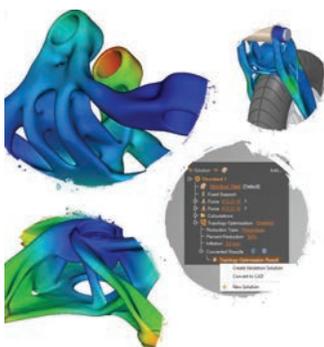


ANSYS Fluent's new fault-tolerant workflow simplifies CFD analysis of non-watertight CAD models.

Geometry courtesy of Technical University of Munich (TUM)



ANSYS 2019 R2 introduces a new user interface for ANSYS Mechanical. This will improve productivity and simplify customization.



ANSYS Discovery Live streamlines and expands the range of applications for conceptual design and real-time simulation. In the ANSYS 2019 R2 release, Discovery Live can resurface topology-optimized geometry and convert it into surface-based computer-aided design (CAD) geometry for use in downstream tools.



ESILICON REVOLUTIONIZES NEXT-GENERATION SYSTEM-IN-PACKAGE DESIGNS

StreetInsider.com, May 2019

eSilicon is pioneering complex system-in-package designs with significantly increased speed, efficiency and production-proven accuracy thanks to ANSYS. eSilicon leverages ANSYS' industry-leading multiphysics simulation solutions to ensure silicon-to-system success — accelerating time-to-market for its high-bandwidth networking, high-performance computing, artificial intelligence (AI) and 5G infrastructure customers.



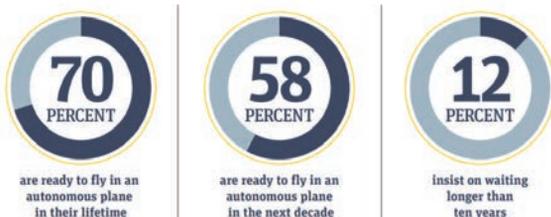
Speeding 5G Network Infrastructure Design
ansys.com/speeding-5g

70% OF CONSUMERS EXPECT TO TRAVEL IN AN AUTONOMOUS AIRCRAFT IN THEIR LIFETIME

CNBC, June 2019

While 70% of consumers are ready to fly in an autonomous plane in their lifetime, only 58% are willing to board a self-flying plane in the next decade. Twelve percent insist on waiting longer than 10 years. Respondents said they are most concerned with technology failure (65%) and autopilot response to external conditions, such as bad weather and turbulence.

Timeline for Adoption:



ANSYS AND BMW GROUP PARTNER TO JOINTLY CREATE THE INDUSTRY'S FIRST SIMULATION TOOL CHAIN FOR AUTONOMOUS DRIVING

HPCwire, June 2019

The simulation tool chain will enable highly automated and autonomous driving. The multi-year agreement drives the development of BMW Group's Level 3 offering and Level 4–5 technology, delivering high/full automation for the highly anticipated BMW iNEXT, expected to launch in 2021.



RFS AND ANSYS LAY FOUNDATION FOR 5G-READY ANTENNAS

Digital Engineering 247, May 2019

Cutting-edge 5G antennas pioneered by Radio Frequency Systems (RFS) will soon connect people, machines and devices more reliably and faster than ever thanks to ANSYS. Standardizing on ANSYS simulation solutions enables RFS engineers to slash simulation time from four days to one hour — speeding their antennas to market and driving global adoption of 5G.

VOLKSWAGEN SMASHES TIME RECORD AT LEGENDARY NÜRBURGRING

Automotive Testing Technology International, May 2019

Volkswagen Motorsport's ID.R race car, powered by ANSYS simulation solutions, cemented its place in racing history by shattering the lap time record for electric vehicles at the Nürburgring Nordschleife. Finishing in 6.05.336 minutes, Volkswagen driver Romain Dumas pushed the ID.R's battery – supported by ANSYS simulations – to its limits on the demanding German race track, showcasing its industry-leading electrical efficiency.



Peak Performance for an Electric Vehicle
ansys.com/peak-performance

ANALYTICAL GRAPHICS AND ANSYS LAUNCH JOINT TECHNOLOGY PARTNERSHIP

ExecutiveBiz, May 2019

This strategic agreement leverages physics-based models to deliver mission simulations with unparalleled accuracy and reliability. AGI expects to enable satellite, aerospace and defense customers to create more precise and reliable modeling and mission simulations with greater accuracy for complex scenarios, including aircraft missions through contested airspace and satellites orbiting the Earth.



ANSYS SOLUTIONS CERTIFIED FOR SAMSUNG 5LPE PROCESS TECHNOLOGY

ansys.com, May 2019

ANSYS multiphysics solutions are enabled on Samsung's latest FinFET technology.

ANSYS ACQUIRES ASSETS OF DFR SOLUTIONS

Pittsburgh Business Times, May 2019

This acquisition gives customers access to Sherlock, the industry's only automated design reliability analysis software. When combined with ANSYS' solutions, customers will be able to quickly and easily analyze for electronics failure earlier in the design cycle.

ANSYS ANNOUNCES INDIAN INSTITUTE OF TECHNOLOGY BOMBAY PH.D. FELLOWSHIP PROGRAM

APN News, April 2019

ANSYS and the Indian Institute of Technology Bombay will accelerate groundbreaking research across healthcare and conservation industries through a newly launched Ph.D. fellowship program funded by ANSYS.

CERTIFICATION FOR INNOVATIVE SYSTEM-ON-INTEGRATED-CHIPS STACKING TECHNOLOGY

ansys.com, April 2019

TSMC and ANSYS enable 3D-IC reference flows for mutual customers to address multiphysics challenges.

ANSYS RECOGNIZED AS A LEADER IN CORPORATE SUSTAINABILITY

CIMdata, February 2019

Corporate Knights, a media and research company dedicated to promoting corporate sustainability, named ANSYS to its 2019 global 100 Most Sustainable Corporations in the World index (Global 100). ANSYS simulation enables engineers around the globe to create a more sustainable world.

