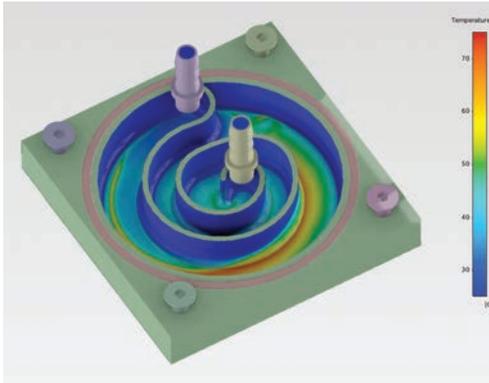


Simulation in the News



ANSYS 16.2: LATEST UPDATE OF THE SIMULATION PLATFORM

Aerospace Manufacturing and Design
onlineamd.com, August 2015

Using the newly released ANSYS 16.2, engineers can create virtual prototypes of complete systems, enabling them to make significant strides in innovation and to unleash next-generation products within their industries. As products — from automobiles to smartphones to wearable technology — become more complex and development times continue to shrink, the need to simulate whole systems grows. Through simulation, engineers can take full advantage of the growing number of opportunities presented by the rapid innovation of materials, electronics and processes.

MULTIPHYSICS: ENGINEERING'S NEW FRONTIER

Automotive News
autonews.com, August 2015

Car manufacturers are using multiphysics simulation to design, develop, test and validate automobiles and auto components more quickly and cost-effectively.

“We are making tools that will allow them, instead of being a fluids expert or a mechanical expert, to be a hydromount expert and have all the tools in one place to solve the problem. That’s the spirit of multiphysics software.”

— Sandeep Sovani, Director, Global Automotive Industry, ANSYS

FREE ENGINEERING SIMULATION SOFTWARE FOR STUDENTS WORLDWIDE

Pittsburgh Business Times
bizjournals.com/pittsburgh, August 2015

ANSYS Student is a free, introductory academic software package for students interested in learning the fundamentals of simulation while gaining exposure to state-of-the-art ANSYS simulation workflows, pre-processing, post-processing and solver solutions. Students can tackle a broad scope of mechanics and fluids simulations, from fundamental tutorial-level models to complex real-world scale models. In addition to providing the software, ANSYS offers self-guided technical support, installation videos, FAQs and introductory tutorials.

TEEN ENGINEER USES ANSYS SOFTWARE FOR AIRCRAFT AIR QUALITY

Desktop Engineering
deskeng.com, July 2015



Inspired by recent headlines about the spread of airborne infectious diseases, Raymond Wang, 17, used ANSYS CFD to model an aircraft cabin and simulate how pathogens spread via cabin airflow. He then used that information to design an air inlet director system that increases the quality of air for each passenger. For this study, Wang won a cash prize and the Gordon E. Moore Award at the Intel International Science and Engineering Fair.

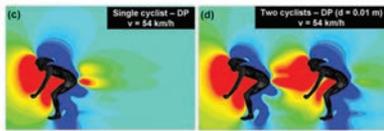
“The key issue with disease transmission occurs when a passenger sneezes inside the cabin.”

— Raymond Wang, Student

ANSYS CFD AIDS STUDY OF AERODYNAMICS FOR CYCLISTS

Desktop Engineering

deskeng.com, June 2015



Professor Bert Blocken, Ph.D, and a team at Eindhoven University performed aerodynamic analysis of a cyclist and car and found that the distance between a bike and the car behind it can affect speed by as much as 24 seconds during a 50 km time trial, enough to impact who wins the Tour de France.

“Conducting CFD simulations allowed us to put the cyclist and the car extremely close to each other. You wouldn’t be able to do that in a real experiment because it would be dangerous to the cyclist.”

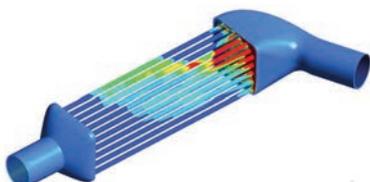
— Bert Blocken, Professor, Eindhoven University

SIMULATION IMPROVES LIFE OF EGR COOLERS

Engineering.com

engineering.com, May 2015

Simulating an exhaust gas recirculation (EGR) cooler with ANSYS Fluent and ANSYS Mechanical helps engineers to evaluate thermal stresses on the system and optimize performance.



D-WAVE SIMULATES QUANTUM COMPUTER PROCESSORS

The Register

theregister.co.uk, May 2015

Canada-based D-Wave builds chips made up of 512 superconducting semiconductor circuits called qubits, which are run at ultra-high frequencies in absolute-zero temperatures with minimal magnetic influences. D-Wave is using ANSYS engineering software to simulate its processor designs; the company says it has made breakthroughs in magnetic shielding.

CHALLENGES IN OPTIMIZING TURBOCHARGERS FOR MULTIPLE CRITERIA

Engineering.com

engineering.com, April 2015

Designers need to optimize many criteria when designing a turbocharger. These include cost, heat, vibration, durability, fuel efficiency, size and more. With shrinking development times, engineers require multiphysics simulation tools to ensure that the first prototype meets all these requirements.

“For companies to be competitive and meet customer requirements, they need to use simulation. Otherwise it is impossible to meet given design-cycle goals.”

— Brad Hutchinson, Global Turbomachinery Industry Director, ANSYS

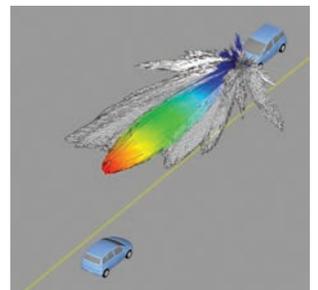
ANSYS EXPANDS INTERNET OF THINGS OFFERINGS WITH LATEST ACQUISITION

Pittsburgh Business Times

bizjournals.com, September 2015

ANSYS has acquired most of the assets of Delcross Technologies, which will enable ANSYS users to understand how antennas interact within their operating environments and how this behavior affects the system’s overall ability to transmit and receive data without interference. Driven by development for the Internet of Things, antennas are becoming increasingly pervasive across industries and products.

However, antennas and other electronic components can disrupt the operation of devices, a phenomenon known as electromagnetic interference, or EMI. Delcross’s solutions identify and help mitigate EMI issues.



ANSYS AND CRAY SMASH SUPERCOMPUTING RECORDS

ANSYS

ANSYS.com, September 2015

ANSYS and Cray Inc., working in conjunction with two supercomputing centers, have smashed the previous simulation world record by scaling ANSYS Fluent to 129,000 compute cores — enabling organizations to spur innovation by creating complete virtual prototypes of their products. This eclipses the previous record by almost 400 percent.