ATA
news

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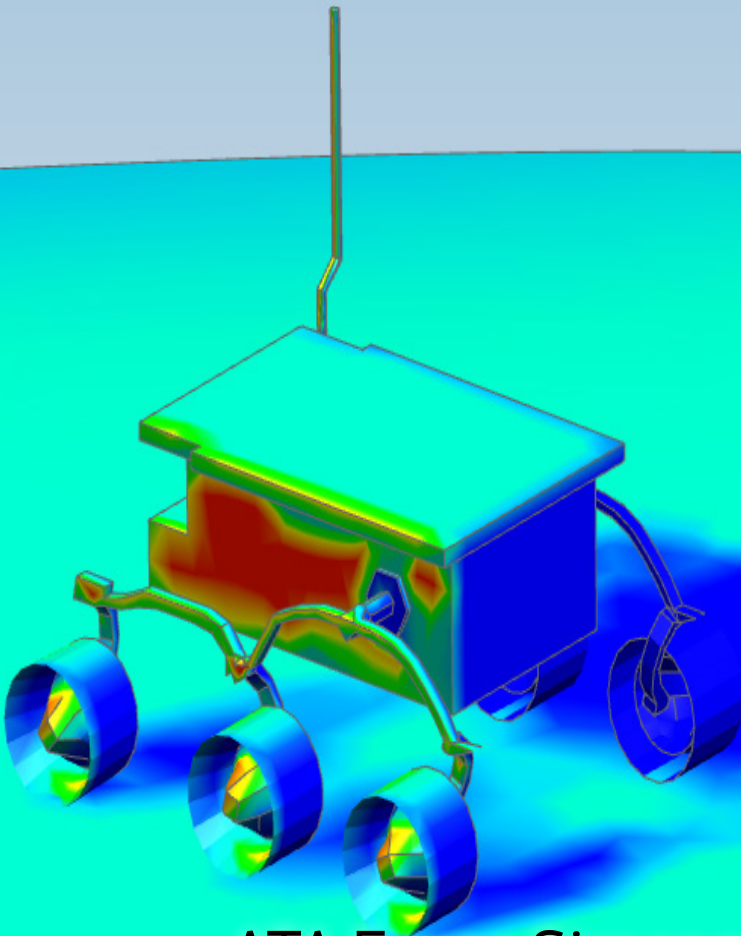
ATA Earns Simcenter 3D Smart Expert Recognition

DETAILS INSIDE

inside:

Siemens Launches New Support Center

Introduced earlier this year, Support Center is a new portal offering everything you need to get the most out of your Siemens Digital Industries Software products. Here, each of your products will have its own Product Center page. This is the place to go when you want to download new versions or maintenance patches of software as soon as they are released, or to view product documentation, troubleshooting solutions from the Siemens knowledge base, and tips for getting started. Each Product Center page also provides access to a variety of other resources and opportunities for learning and exploration.

Back on the main page under Account Center, follow the Licenses link to download the new license files required to authorize those new software releases. The main page also offers convenient links to the community forums and training activities through Learning Advantage.

Get started with Support Center today:

https://support.sw.siemens.com/en-US/

ATA is proud to be our customers' first line of support, and we invite you to contact our technical support hotline for assistance with your questions and problems.

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ATA Earns Simcenter 3D Smart Expert Recognition

Building on our previous recognition for excellent support of the Femap and STAR-CCM+ product lines, ATA is proud to have recently been recognized by Siemens Digital Industries Software as a Platinum Smart Expert Partner for Simcenter 3D. This distinction, validated by both customers and Siemens Digital Industries Software, demonstrates ATA's commitment to delivering best practices and proven solutions that help our customers meet their toughest engineering challenges.

This recognition further highlights ATA's excellence in supporting the full range of powerful simulation tools available within Siemens' Simcenter portfolio. We look forward to helping your team meet your most ambitious goals.

Solution
Partner

Smart Expert

Digital Industries
Software

SIEMENS

Calendar of Events

UPCOMING TRAINING CLASSES

ATA provides comprehensive training in the use of Femap, Simcenter 3D (formerly NX CAE), and Simcenter Nastran (formerly NX Nastran). Upcoming training classes are shown below. Please visit our website to sign up for these classes or request a custom class.

UPCOMING CLASSES WILL BE HELD VIRTUALLY THROUGH LIVE ONLINE SESSIONS AS NOTED ON THE COURSES' INDIVIDUAL REGISTRATION PAGES.

FEMAP

JUL 21   **Introduction to Femap**

SIMCENTER NASTRAN WITH FEMAP

AUG 11   **Introduction to Finite Element Analysis**

SEP 22   **Multi-Step Nonlinear**

OCT 06   **Introduction to Dynamic Analysis**

OCT 13   **Advanced Dynamic Analysis**

SIMCENTER NASTRAN WITH SIMCENTER 3D

AUG 11   **Introduction to Finite Element Analysis**

SEP 22   **Multi-Step Nonlinear**

OCT 06   **Introduction to Dynamic Analysis**

**OCT 13**   **Advanced Dynamic Analysis**

SIMCENTER 3D

SEP 15   **Response Dynamics**

ATA also provides a host of free training resources including tutorials, videos, and whitepapers.

Tips and Tricks

STAR-CCM+: BRING RESULTS TO LIFE WITH SCREENPLAY

Screenplay, introduced as part of last summer's STAR-CCM+ 2019.2 release, empowers users to communicate the results and implications of their simulations more effectively by providing an intuitive drag-and-drop interface for quickly animating and interpolating simulation views and visualizations. If you haven't tried it yet, now is the perfect time to start – learn more with our on-demand webinar.
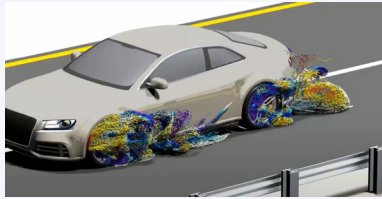
FEMAP: SPECIFY AND CLEAR MESH SIZING

There are three basic ways that mesh sizing can be specified: along a curve, at a point, or globally. If you set the size along a curve, the other two methods are ignored, even if you specify them. If you do not set the size along a curve, point mesh sizes are used wherever they are defined. Global mesh sizes are used only when neither curve nor point mesh sizes apply.

Mesh → Mesh Control → Size on Surface and Size on Solid set the mesh size for each curve that defines that surface or solid, along with an internal growth factor. Size on Solid provides an option to match adjacent surfaces, remove previous slaving, or skip sizing on slaved surfaces. Mesh Surface inside the Meshing Toolbox has a mesh field size and options to choose how that mesh size is applied to free and connected edges.

Point mesh controls can be cleared by setting the Size at Point to zero. Other mesh controls can be cleared by going to Mesh → Mesh Control → Size on Curve, selecting curves from which to remove the control (by solid, surface, individual curve, or select all), and clicking Reset.

New Resources

On-Demand Webinars: Introduction to Value-Based Licensing

Value-based licensing lets companies purchase tokens that can be pooled among users to allow access to a wide array of modules that are very powerful but might not be needed every day by every user. These webinars review what value-based licensing is, how tokens work, and what capabilities are available through the token system. Capabilities include the following:
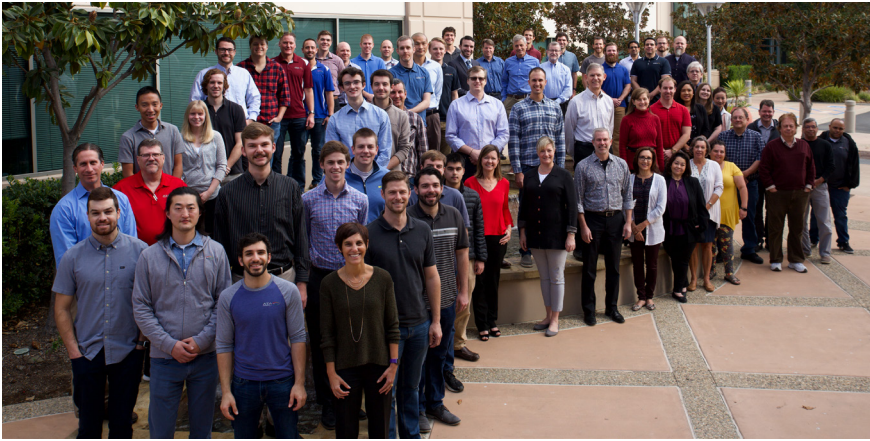
- **NX**: Assembly Path Planning, Human Modeling, Animation Designer, Aerospace Design, NX Ship Structure Applications, Realize Shape, General Packaging, Routing Base + Harness, Translators, and One-Step Formability Analysis

- **Simcenter 3D**: Structural Analysis, Dynamics, Durability, Composites, Thermal, Fluids, Motion, Acoustics, Multiphysics, and Additive Manufacturing Analyses

On-Demand Webinar: Overview of Nastran Mass and Weight Checks

For dynamic analyses or static cases where acceleration loads are applied, correct mass representation is needed for results to be predicted accurately. This webinar takes a closer look at different methods for evaluating mass within both Simcenter 3D and Femap and discusses the various options available in the Nastran WEIGHTCHECK tool, how to interpret the results, best practices, and what to watch out for.

Femap API: Print Femap Group Summary to Excel

This API prints summary information of user-selected groups to Microsoft Excel, including Group ID and Name, node and element information, and element mass, CG, length, area, and volume. This makes it easier to compare entity counts and ID ranges and to complete mass checks at a component level.

Recent News

ATA Earns AS9100D Certification

ATA Engineering is pleased to announce that we have earned our ISO 9001:2015 + AS9100D certification for our Quality Management System. The scope of ATA's certification is "designs and implements aviation, space, and defense testing services." Read more.

Siemens Releases Femap 2020.2

The latest version of Femap delivers impressive performance improvements, with some commands now running up to 100x faster than in prior releases. It also now fully supports high-resolution displays, and it adds stress linearization, along with many other new features. Learn more in this video from Siemens' Mark Sherman and Andy Haines.

ATA Releases IMAT 7.5.0

IMAT is a MATLAB toolbox designed for test and analysis engineers who process data from a variety of sources. The latest release offers powerful new substructuring capabilities that let users assemble a system model from test- and analysis-based component modes and solve for system modes and transient solutions. In addition, Output4 data can now be processed significantly faster, and Output2 data is handled with improved memory efficiency. Learn more.

Why choose **ATA?**

ATA Engineering is a nationwide provider of innovative, high-value, test- and analysis-driven mechanical engineering design solutions.

With more than four decades of experience working with our customers to solve the most challenging design, test, and analysis problems, we have gained a reputation for excellence in the engineering community.

Our work on a wide range of products across a broad spread of industries has been recognized with numerous technical and service awards for excellence. This expertise and support is a key part of the added value we offer to all customers who purchase Siemens products from us, whether you are an independent contractor or a large engineering team. To provide best-in-class support to our VAR software customers, we have established a formal hotline system that provides on-demand support to resolve technical issues encountered by our customers in their implementation of the tools.

The hotline is staffed by experienced engineers, all of whom use these applications on a regular basis. ATA is also the Siemens PLM Software-preferred training provider and official developer of courseware for all Simcenter Nastran training.

ATA Technical Support

Need technical assistance? Call our hotline staffed by engineers at **877-282-4223**, or visit us online. Even if you're not a current ATA customer, try us out for free.

Free Software Trials

Contact us for more information about free trials/demos of Femap and Simcenter Nastran, NX CAD and CAM, Simcenter 3D, Simcenter STAR-CCM+, Teamcenter, and Solid Edge.

Featured Instructor

Frank Fan

Frank Fan joined ATA in 2016 and is a senior project engineer in ATA's San Diego office. Frank assists with ATA's CAE hotline and leads training courses, including Introduction to FEA and Introduction to Dynamic Analysis. Prior to joining ATA, Frank developed testing methods and analysis tools for golf ball impact performance and flight trajectory; he was also on the development team for several deep-sea autonomous underwater vehicles (AUVs).

Frank has used Femap, Simcenter Nastran, and ATA's Vibrata on a variety of customer structural analysis projects, from evaluation of a microelectromechanical systems (MEMS) inertial measurement unit to validating critical systems on the NASA Perseverance Mars rover. Frank has also leveraged his prior experience to manage a Small Business Innovation Research project to develop a comprehensive analysis tool for electric vertical takeoff and landing (eVTOL) vehicles.

Frank has a B.S. in Structural Engineering and an M.S. in Mechanical Engineering from the University of California San Diego, as well as a Ph.D. in Aerospace Engineering from the Massachusetts Institute of Technology.

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ATA Engineering, Inc., has been recognized as a Smart Expert Partner with validated expertise in Femap, Simcenter 3D, and STAR-CCM+.

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