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DECEMBER 2023

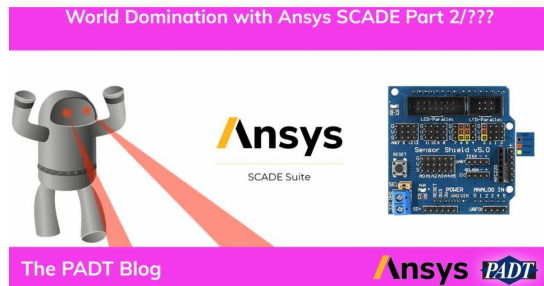
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Featured Stories

World Domination with Ansys SCADE Parts 1 & 2

Software runs everything these days. Because this is so important, PADT's Noah Asherbranner has started a series on how to use Ansys SCADE to design, code, and verify the software for devices. In the first two installments, he explains how Ansys SCADE generates certified C and ADA and then how to use it to create Arduino code.

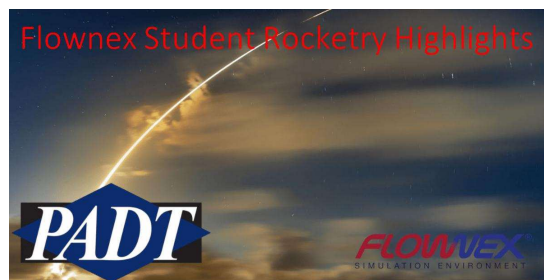
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Flownex Student Rocketry Highlights

PADT is excited to share highlights from our partnerships with student teams taking part in the 2023 Launch Canada (LCRA) and the Spaceport America Cup (SACUP) competitions. US and Canadian university rocketry teams are developing rockets using Flownex .

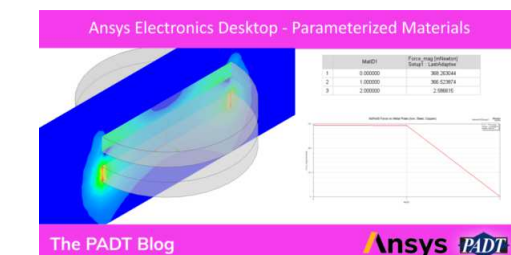
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Ansys Electronics Desktop – Parameterized Materials

The Ansys Electronics Desktop (AEDT) environment is the common interface for Ansys Maxwell, Ansys HFSS, and more. PADT's Tyler Buntin makes his first contribution to The PADT Blog, showing AEDT's parametric capabilities with an overview of how to parameterize your materials using the array functionality in AEDT.

[Read More](#)



Customer Corner



FreePower Receives Three CES Innovation Awards

FreePower for Countertop has received three CES Innovation Award Honoree recognitions for 2024, including a new wireless charging integration for residential and commercial surfaces. They received awards in categories recognizing innovation in Smart Cities, Smart Homes, and Embedded Technologies. FreePower develops wireless device charging solutions.

[Read More](#)

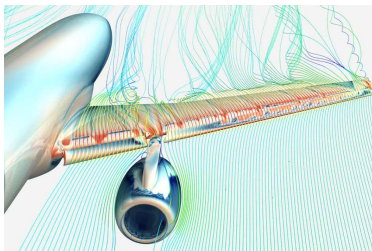


Ursa Major to 3D Print Solid Rocket Motor Cases

Propulsion firm Ursa Major announced a 3D printing-based approach to designing and manufacturing solid rocket motors it hopes will lead to faster and cheaper production. The strategy, which the Colorado-based company calls Lynx, will first involve using a single 3D printer to make motor cases and subcomponents for smaller systems

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Featured Products and Services



Simulation Product Ansys FLUENT

Ansys Fluent is the industry-leading fluid simulation software known for its advanced physics modeling capabilities and industry-leading accuracy. One of the best-known Ansys products, it has added significant new capabilities, performance improvements, and usability features that make it worth a second look for those using other CFD solutions.

[Learn More](#)



3D Printer Stratasys H350

The SAF-powered H350 3D printer gives you control over your production and costs. Grow your business through volume production with consistent end-use functional parts. H350 is the additive manufacturing solution with the control customers need to deliver the consistency, accuracy, and competitive cost these markets demand.

[Learn More](#)



Services Additive Manufacturing E3T Consulting

PADT is helping AM development and adoption by offering its AM E3T Consulting Program that will Engage, Enable, Empower and transform your AM initiatives. We call this unique offering Additive Manufacturing E3T Consulting Services.

[Learn More](#)



Upcoming Events

- 01/24/2024 - 01/26/2024 | [Arizona Photonics Days 2024](#)
- 01/25/2024 | [AZTC 1st Quarter VIP Tech Mixer](#)
- 02/06/2024 - 02/08/2024 | [IME West \(MD&M and D&M West\)](#)
- 02/06/2024 - 02/08/2024 | [2024 Transformative Flight](#)
- 04/08/2024 - 04/12/2024 | [39th Space Symposium](#)

What You Missed...



PADT Webinars

[Improving Health Care with Additive](#)

[Optics Updates in Ansys 2023 R2](#)

[Twin Builder Updates in Ansys 2023 R2](#)



All Things Ansys Podcasts

[125: 2023 Wrapup](#)

[124: Ansys Licensing](#)

[123: Simulation in the Medical Space](#)



Did You Know?

The most common process used in metal 3D Printing is Direct Metal Laser Sintering. PADT partner EOS has a great video explaining how the process works.

[Check out the video](#) to learn more or contact us to talk about metal AM

The Latest Definition from PADT's 3D Printing Glossary



Selective Absorption Fusion [SAF]

An **additive manufacturing** process that is a hybrid of **powder bed fusion** and some of the techniques used in **binder jetting**. Multiple **inkjet** print heads deposit an infrared-sensitive material that absorbs heat, enough heat to fuse the particles on the top **layer** of a **powder bed** where the heat-absorbing material has been deposited when exposed to an infrared lamp. It is faster than **selective laser sintering** and creates stronger parts than **binder jetting** because the powder is fused and not bonded.

Similar to **high-speed sintering (HSS)** and **multi-jet fusion (MJF)**
Abbreviated as **SAF**.

Categories: **Additive Manufacturing Processes, Powder Bed Fusion**

Current Job Openings

- [Account Manager, 3D Printer Sales](#)
- [Application & Support Engineer, Structural](#)

- [Business Development Representative, Software Sales](#)
- [Model Based Systems Engineer](#)

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We Make Innovation Work



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