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For the past three years, engineers at the University of Pennsylvania's School ... James Pikal, assistant professor in the Department of Mechanical Engineering and Applied Mechanics, and Zhimin Jiang, ...

"Metallic" wood is as strong as titanium, reflects light

Applications of machine learning and other forms of artificial intelligence have been recognized in robotics and analytics. Now the technology is adding some spice to basic control applications.

When Artificial Intelligence Comes to Control

Penn Engineers' "metallic wood" gets its useful properties and name from a key structural feature of its natural counterpart: porosity. As a lattice of nanoscale nickel struts, metallic wood is full ...

Growing 'metallic wood' to new heights

This text is geared toward students who have an undergraduate degree or extensive coursework in engineering or the physical sciences and who wish to develop their understanding of the essential topics ...

Essential Mathematics for Engineers and Scientists

Deployable structures—objects that transition from a compact state to an expanded one—are used everywhere from backyards to Mars. But as anyone who has ever struggled to open an uncooperative folding ...

Kiriform structures harness bucking for stable, deployable structures

What do mechanical engineers do? The essence of engineering is problem solving ... and requires gathering and analyzing temperature data and distributions. Fluid mechanics, which also has a variety of ...

What Is Mechanical Engineering?

Natural wood remains a ubiquitous building material because of its high strength-to-density ratio; trees are strong enough to grow hundreds of feet tall but remain light enough to float down a river ...

Growing "Metallic Wood" to New Heights: Radically Decreasing a Material's Density Without Sacrificing Strength

Additive manufacturing has the potential to allow one to create parts or products on demand in manufacturing, automotive engineering, and even in outer space. However, it's a challenge to know in ...

Team uses AI to predict 3D printing processes

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New Smart Cement Invented for Building More Durable Roads and Cities

Nanotechnology is becoming central to several fields of engineering in today's high-tech world. It can be applied across many fields where improvements in materials and devices at atomic or molecular ...

Nanotechnology Advanced Materials: Know Study, Career Options in Emerging Field

With its commitment to innovation that benefits San Antonio and beyond, researchers in the UTSA College of Engineering and Integrated Design are studying a variety of challenges that could help ...

UTSA researchers renowned for expertise in civil and structural engineering

This prestigious prize, sponsored by the Journal of Fluid Mechanics, is awarded every 4 years at the International Congress of Theoretical and Applied Mechanics to recognise ... of the American ...

Batchelor Prize 2020

The team published their results in Computational Mechanics in January 2021. "This is the first time that neural networks have been applied to ... Zhu sees engineers in the future using neural ...

Using AI to predict 3D printing processes

According to his bio, Kumar has appointments in the Departments of Mechanical Engineering and Applied Mechanics ... the American Society of Mechanical Engineers and the Institute of Electrical ...

Prof. Vijay Kumar Reappointed Dean of Penn School of Engineering and Applied Science Dean

The interdisciplinary research team of designers and engineers used a combination ... the William and Ami Kuan Danoff Professor of Applied Mechanics at SEAS and senior author of the study.

Pop-up coffee table -- no assembly required

NASA's space shuttle took its last flight, but the Shuttle's controversies stretches far beyond that. Two years removed from the Columbia disaster, the June 2005 issue of Popular Mechanics ...

The Pros and Cons of NASA's Space Shuttle

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Biodegradable Urethane's Potential for Drug-Delivery Implants

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Growing 'metallic wood' to new heights

Engineers are using physics ... their results in Computational Mechanics in January 2021. "This is the first time that neural networks have been applied to metal additive manufacturing process ...