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American Society of Mechanical Engineers (ASME) Description: The American Society of Mechanical Engineers (ASME) allows authors to submit their manuscripts formatted in LaTeX to any of their journals and conferences.

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Superhydrophilic Nano-Structured Coatings (SHNC) were discovered during pool boiling experiments using nanofluids with alumina nanoparticles. During nucleate boiling, the nanoparticles are deposited on the heater surface, forming a uniform oxide coating.

Wetting & Wicking Effects of Superhydrophilic - ASME DC

The heat-transfer coefficient between fluid and tube wall in turbulent flow depends upon the physical and thermal properties of the fluid. When density changes across the diameter of the tube are large (for example, when the fluid is near the critical point), the variable density can affect the transfer of momentum and heat.

The Effect of Density Variation on Heat Transfer - ASME DC

This paper presents the design of an underactuated robotic arm for capturing moving targets with an impact-absorbing capability. The arm consists of three joints (a base joint (BJ), a medial joint (MJ), and a distal joint (DJ)) that are driven by two actuators.

An Underactuated Robotic Arm Based on - ASME DC

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Applied Energy - Journal - Elsevier

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Abstract: Engine is the heart of aircraft, which makes other systems dependent on it for their proper function. This arise the situation to use an engine with high efficiency and reliability.

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The research area of buckling of nonuniform columns has been one of the important topics of extensive studies based on the reality that is closely related to the fields of structural, mechanical, and aeronautical engineering. Determination of practical load carrying capacity of a structural member

Journal of Applied Mathematics - Hindawi

Specimen manipulation strategies are illustrated schematically across the length scales involved in micro- and nanotensile testing. The top row shows examples of specimens that can be handled using tweezers. The middle and bottom rows require manipulators to harvest and transfer specimens to a

The Micro- and Nanoscale Tensile Testing of Materials

Epicurious is a digital brand for consumers interested in food and cooking-related topics. The website was created by Condé Nast in 1995 and is now part of the publisher's Food Innovation Group. Epicurious also serves mobile content through apps available across multiple platforms, including Android, Windows, and iOS phones and tablets, as ...

Epicurious - Wikipedia

The Allam cycle is a novel CO₂, oxy-fuel power cycle that utilizes hydrocarbon fuels while inherently capturing approximately 100% of atmospheric emissions, including nearly all CO₂ emissions at a cost of electricity that is highly competitive with the best available energy production systems that do not employ CO₂ capture.

Demonstration of the Allam Cycle: An Update on the

Theodore von Kármán (Hungarian: (szólászlaki) Kármán Tádor [(sã,IIã,Ë•ÊfkiÊfIÉ'ki) ÊˆkaË•rmaË•n ÊˆtoË•dor]; 11 May 1881 – 6 May 1963) was a Hungarian-American mathematician, aerospace engineer, and physicist who was active primarily in the fields of aeronautics and astronautics.

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