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ASME B16.1-2010_Gray Iron Pipe Flanges and Flanged Fittings Classes 25, 125, And 250

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By Charles Becht IV. AVAILABLE IN HARDCOVER OR DIGITAL DOWNLOAD (PDF) EDITIONS. Fully updated for the 2008 Edition of the ASME B31.3 Code, this third edition provides background information, historical perspective, and expert commentary on the ASME B31.3 Code requirements for process piping design and construction.

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This paper describes a method for evaluating the structural adequacy of various lifting lugs utilized in the erection and up righting of large pressure vessels.

Proposed Design Criterion for Vessel Lifting Lugs in Lieu

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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Abstract: Engine is the heart of aircraft, which makes other systems dependent on it for their proper function. This arises the situation to use an engine with high efficiency and reliability. In spite of all other types of engine, Gas turbine engine is the best suited one for modern transportation.

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Journal of Applied Mathematics - Hindawi

The name maglev is derived from magnetic levitation. Magnetic levitation is a highly advanced technology. It has various uses. The common point in all applications is the lack of contact and thus no wear and friction. This increases efficiency, reduces maintenance costs, and increases the useful life of the system. The magnetic levitation technology can be used as an efficient technology in ...

Journal of Engineering - Hindawi Publishing Corporation

TMS presents a free JOM article. FIGURE 2. Scanning electron microscopy images showing strategies for harvesting, manipulating, and attaching quasi-1-D nanostructures.

The Micro- and Nanoscale Tensile Testing of Materials

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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. The proprietary system achieves these results through a semi-closed ...

Demonstration of the Allam Cycle: An Update on the

Theodore von Kármán (Hungarian: (szállás'iskislaki) Kármán Tádor [(sáll,ÉfkiÉfÉ'ki) É'kaÉrmaÉn É'toÉdor]; 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. He is responsible for many key advances in aerodynamics, notably his work on supersonic and hypersonic ...

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