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Advances in 3D printing are enabling the design and fabrication of tailored lattices with high mechanical efficiency. Here, we use an integrated design, manufacturing, and experiment approach to mechanically characterize and configure beam-based lattices intended for use in spinal cages for bone fusion.

Article | Journal of Mechanical Design | ASME DC

Focuses on dissemination of information of permanent interest in applied thermal sciences and engineering and is intended to be complementary to the ASME Journal of Heat Transfer, which focuses on research.

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Article | Journal of Mechanical Design | ASME DC

Joints gasketed with viscoelastic seals often receive an application of a secondary torque, i.e., re-torque, in order to ensure joint tightness and proper sealing.

Article | Journal of Pressure Vessel Technology | ASME DC

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One of the primary reasons of the optimism for new nuclear plant construction progress in the U.S. is the significant increase in plant reliability and availability over the last 40 years.

Improving Nuclear Power Plant's Operational Efficiencies in

Companion Guide to the ASME Boiler and Pressure Vessel Code, Volume 1, Third Edition> Chapter 6
Section III: Subsections NC and ND – Class 2 and 3 Components Companion Guide to the ASME Boiler
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Nuclear Power Plant Simulator for Concept Design and

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The evolution process of a diffuser rotating stall in a centrifugal compressor with a vaned diffuser was investigated by experimental and numerical analyses.

Article | Journal of Turbomachinery | ASME DC

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The modelling of the different mechanical behaviors of brittle and quasi-brittle materials in tension and compression leads to partitioning the strain (or stress) tensor into a positive part and a negative part.

Article | Journal of Applied Mechanics | ASME DC

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Contributed by the Fluids Engineering Division of ASME for publication in the JOURNAL OF FLUIDS ENGINEERING. Manuscript received February 11, 2018; final manuscript received October 5, 2018; published online December 10, 2018.

Dynamic Behaviors of Re-Entrant Jet and Cavity Shedding

To help address the limitations of operating conventional microbiological culture incubators in low resource environments, a new incubator design was developed and tested to meet the requirements of operation in laboratories without reliable power (power outages up to 12 contiguous hours) or climate control (ambient indoor temperatures from 5 °C to 45 °C).

Article | Journal of Medical Devices | ASME DC

Due to the deficiency of the research on parallel foils, the parallel configuration of foils is concerned and the effects of motion parameters on energy extraction are systematically discussed in the present study.

Numerical Investigation Into the Effects of Motion

Sand ingestion and deposition in gas turbine engine components can lead to several operational hazards. This paper discusses a physics based model for modeling the impact, deposition and sticking of sand particles to surfaces.

Article | Journal of Turbomachinery | ASME DC

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Nonlinear Torsional Vibration Absorber for Flexible

The Journal of Heat Transfer disseminates information of permanent interest in the areas of heat and mass transfer. Contributions may consist of results from fundamental research that apply to thermal energy or mass transfer in all fields of mechanical engineering and related disciplines.

Journal of Heat Transfer | ASME DC

This paper presents an evaluation of alternative particle heat-exchanger designs, including moving packed-bed and fluidized-bed designs, for high-temperature heating of a solar-driven supercritical CO₂ (sCO₂) Brayton power cycle.

Article | Journal of Solar Energy Engineering | ASME DC

Two-phase flow of oil and gas is quite common in developing fractured carbonate volatile oil reservoirs. Many analytical models proposed for volatile oil wells are limited to single-phase flow cases and conventional methods have been the use of numerical simulations for this problem.

Article | Journal of Energy Resources Technology | ASME DC

Coiled tubing is widely used in oil drilling and production operations. However, extreme high stress variation of coiled tubing during the processes of pulling out, rolling in the reel, and passing through the gooseneck makes coiled tubing fatigue failure easily.

Prebending Coiled Tubing and Its Fatigue Life Prediction

Nowadays, both usability and comfort play a key role in the development of medical and wearable products. When designing any device that is in contact with the human body, the mechanical behavior of the embraced soft tissue must be known.

Design of Semirigid Wearable Devices Based on Skin Strain

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering Journal of Applied Mechanics Journal of Biomechanical Engineering

Article | Journal of Vibration and Acoustics | ASME DC

Ca-Mn-based perovskites doped in their A- and B-site were synthesized and comparatively tested vs. the Co₃O₄/CoO and (Mn,Fe)₂O₃/(Mn,Fe)₃O₄ redox pairs with respect to thermochemical storage and oxygen pumping capability, as a function of the kind and extent of dopant.

Article | Journal of Solar Energy Engineering | ASME DC

This paper reveals the theoretical (upper and lower) bounds of the performance of an on-off damping vibration absorber attached to an undamped multi-degree-of-freedom (MDOF) system under harmonic excitation.

Article | Journal of Vibration and Acoustics | ASME DC

An efficient and accurate model for the dynamic assessment of train-track behaviors subject to cross wind actions is developed in this paper, where the wind-train-track interaction is regarded as a coupled vibration system.

Article | Journal of Computational and Nonlinear Dynamics

Contributed by the Pressure Vessel and Piping Division of ASME for publication in the JOURNAL OF PRESSURE VESSEL TECHNOLOGY. Manuscript received March 27, 2018; final manuscript received October 19, 2018; published online December 7, 2018.

Development of an Finite Element Model for Pressure Test

This manuscript investigates the effect of non-conservative electromechanical energy transfer on the onset of inter-well motions in multi-stable piezoelectric energy harvesters.

Article | Journal of Computational and Nonlinear Dynamics

We also proposed a three-direction physical model for oil adsorption and used it to calculate the theoretical oil adsorption rate by different free volumes. As a result, we confirmed that the proposed three-direction model could accurately estimate the oil adsorption rate.

Investigation of Oil Adsorption Performance of

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering
Journal of Applied Mechanics Journal of Biomechanical Engineering

Characterization of New Nonstoichiometric Ferroelectric

Contributed by the Structures and Dynamics Committee of ASME for publication in the JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER. Manuscript received July 4, 2018; final manuscript received July 17, 2018; published online December 7, 2018.

An Extension of the Classical Subset of Nominal Modes

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Contributed by the Computers and Information Division of ASME for publication in the Journal of Computing and Information Science in Engineering. Manuscript received April 29, 2012; final manuscript received February 6, 2013; published online April 22, 2013.

Inverse Simulation Under Uncertainty by Optimization

ASME is one of the premier standards developing organizations in the world. Best known for the ASME Boiler and Pressure Vessel Code (BPVC or The Code), ASME also publishes standards, codes, books, journals and other publications covering just about every engineering discipline.

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Control of Directed Formations Using Interconnected

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A New Observer Design for Aging Detection of

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