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Numerical and experimental design study


Numerical and experimental study on the design strategy of a new collapse zone structure for railway vehicles Zhaijun Lu
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Numerical and experimental study on the design strategy of ...
Design study of a novel regenerative pump using experimental and numerical techniques. This paper presents a numerical and experimental analysis of a new regenerative pump design. The complex flow...

(PDF) Numerical and Experimental Design Study of a ...
Abstract. Numerical and experimental study of a 1-kW hydrazine engineering design model arcjet thruster with simulated hydrazine reaction products as propellant was performed. A two-dimensional numerical model incorporating the effects of viscous dissipation, Lorentz force, ohmic heating, heat conduction, radiation loss, and pressure work was developed to model the plasma processes inside the arcjet nozzle.

Numerical and Experimental Study of a 1-kW Hydrazine ...
Experimental data were compared with simulation results. All (100%) micron particles were separated by a side flow with different flow ratios of sample and sheath flow; this result was proved both experimentally and through numerical simulation. The study was intended to verify the feasibility of using the AVI for particle separation.

Numerical and experimental study of virtual impactor ...
The organic Rankine cycle (ORC) is low-grade heat recovery technology, for sources as diverse as geothermal, industrial, and vehicle waste heat. The working fluids used within the...

Experimental and Numerical Study of Supersonic Non-ideal ...
Soil-structure interaction (SSI) phenomena subjected to seismic loadings are investigated in this study. Firstly, shaking table tests on dynamic soil-...
Experimental study and numerical simulation on dynamic ... This paper presents a comparison study on the spray characteristics with different fuels and different fuel injection parameters. Both experimental and numerical studies were employed in investigating the macroscopic spray structure and the spray characteristics of liquid-phase LPG or LPG/diesel.

Experimental and Numerical Study on the Characteristics of ... In order to study the mixing in an ejector operating with a secondary flow, a numerical colorant has been used. The results were compared with those of laser tomography pictures. The secondary pressure has been accounted for in the comparisons. For the highest pressure, numerical results were in excellent agreement with experimental data.

Numerical and experimental investigations on supersonic ... Experimental studies are ones where researchers introduce an intervention and study the effects. Experimental studies are usually randomized, meaning the subjects are grouped by chance. Randomized controlled trial ... The strengths and weaknesses of a study design should be seen in light of the kind of question the study sets out to answer ...

Observational vs. experimental studies The axial and radial temperature distributions of an induction heating workpiece considerably impact the subsequent nitriding process. To obtain a satisfactory temperature distribution, an equal ... experimental studies

Experimental and numerical study of the effect of coil ... design of the experiment. After obtaining the sufficient experimental unit, the treatments are allocated to the experimental units in a random fashion. Design of experiment provides a method by which the treatments are placed at random on the experimental units in such a way that the responses are estimated with the utmost precision possible.

Chapter 4 Experimental Designs and Their Analysis Miniaturized heat exchangers are well known for their superior heat transfer capabilities in comparison to macro-scale devices. While in standard microchannel systems the improved performance is provided by miniaturized distances and very small hydraulic diameters, another approach can also be followed, namely, the generation of local turbulences. Localized turbulence enhances the heat ...

Numerical and Experimental Study of Microchannel ... In pharmacoepidemiology, the primary use of experimental design is in performing clinical trials, most notably randomized, controlled clinical trials. 4 These studies involve people as the units of analysis. A variation on this experimental design is the community intervention study, in which groups of people, such as whole communities, are the unit of analysis.

Chapter 4. Experimental Study Designs ... The numerical and experimental results are consistent, showing that this study successfully forecasted the relationship between the rotation speed of the spindle and the oil pressure of the recesses. It also provides data for the follow-up study of the relationship between the oil pressure of the recesses and the deformation of the spindle unit.

Numerical Simulation and Experimental Study of the ... This paper focuses on extensive numerical and experimental investigations of a thin sandwich acoustic source. Due to an energy inefficient actuation design, a thin sandwich acoustic source that was proposed in an early study is redesigned and reconstructed in the current research.

Numerical and experimental studies ...
Numerical and Experimental Investigations on a Dimpled Savonius Vertical Axis Wind Turbine. This research deals with the design and fabrication of novel designs as a mean to harness wind energy using a ‘Savonius’ Turbine. It is generally employed to harvest the low to very low wind speed potentials.

Numerical and Experimental Investigations on a Dimpled ...

Experimental Design
Design of Experiments (DOE) defined: A theory concerning the minimum number of experiments necessary to develop an empirical model of a research question and a methodology for setting up the necessary experiments. A parsimony model

Human subject vs. object experimentation
Other DOE Constraints
Time
Money

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