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of a Regenerative Pump Francis
J Quaila, Matthew Sticklanda and
Thomas Scanlona a Department of
Mechanical Engineering, University of
Strathclyde, Glasgow, G11XJ,
Scotland. Abstract. This paper presents
the use of a commercial CFD code to
simulate the flowfield within

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Study of a Regenerative Pump
Therefore, in this study, a series of
numerical calculation with
experimental comparison have been
made to figure out the physics of

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design process and thereby the
determination of operating condition in
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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

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dissipation, Lorentz force, ohmic heating, heat conduction, radiation loss, and pressure work was developed to model the plasma processes inside the arcjet nozzle.

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a 1-kW Hydrazine ... Experimental Design Study

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

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study was intended to verify the feasibility of using the AVI for particle separation.

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centrifugal pump with stay vanes was analyzed in this study. The static performance and pressure fluctuations in the pump were numerically predicted and were compared with experimental data. Considering the relative positions of the impeller to the volute tongue and stay vanes, the

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static performance which was obtained using a full unsteady calculation was compared with traditional steady calculation results.

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Experimental Study of Topographic
Speed-Up Effects in Complex Terrain
by Takanori Uchida * and Kenichiro
Sugitani Research Institute for Applied
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with various discharges and gate
submergence levels were conducted

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and the results were compared. The main conclusions of this study are as follows. (1) The flow interacting with the sluice gate, bottom step, and intake pipe was described by a streamline pattern and velocity profile. Notably, a large counterclockwise vortex formed in the upper water body

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This paper presents the use of a commercial CFD code to simulate the flow-field within the regenerative pump and compare the CFD results with new experimental data. Regenerative pumps are the subject of increased interest in industry as these pumps are

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Abstract. This paper deals with an experimental study of the survivability of the offshore combined concept Semisubmersible wind energy and Flap-type wave energy Converter (SFC) a

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Experimental and numerical study of the response of the ...

Experimental research is the most familiar type of research design for individuals in the physical sciences and a host of other fields. This is

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mainly because experimental research is a classical scientific experiment, similar to those performed in high school science classes.

Experimental Research Designs:
Types, Examples & Methods

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The results indicate excellent agreement between the measured and numerical temperatures, which justifies the validity of the optimization design tool considered in this study.

Acknowledgment This work was supported in part through the Ministry of Science and Technology, Taiwan. ,

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The numerical simulations by Guo et
al. confirmed that adding H₂ to C₂H

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4 is more effective than He in Study

suppressing soot formation, which is qualitatively consistent with the experimental results of Gülder et al.

Zhao et al. investigated experimentally the distributions of flame structure and distributions of soot diameter and SVF in laminar C₂H₄ diffusion flames by

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adding 2%, 5%, 10%, 15%, and 20%
of He and H₂.

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