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Study 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

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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

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the physics of design process and thereby  
the determination of operating condition  
in the actual full-scale storage tank.

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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 dissipation, Lorentz force, ohmic heating,

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Study of A heat conduction, radiation loss, and pressure work was developed to model the plasma processes inside the arcjet nozzle.

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Numerical and Experimental Study of a  
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Experimental data were compared with

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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.

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virtual impactor ...

The unsteady flow inside a large  
centrifugal pump with stay vanes was  
analyzed in this study. The static  
performance and pressure fluctuations in

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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 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

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Sugitani Research Institute for Applied  
Mechanics (RIAM), Kyushu University,  
6-1 Kasuga-kouen, Kasuga, Fukuoka  
816-8580, Japan

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Numerical and experimental investigations of pump sump flows with various discharges and gate submergence levels were conducted 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

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streamline pattern and velocity profile.

Notably, a large counterclockwise vortex formed in the upper water body between the gate and the suction pipe.

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Numerical and Experimental Study of  
Pump Sump Flows

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Numerical And Experimental Design  
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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

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experimental data. Regenerative pumps are the subject of increased interest in industry as these pumps are low cost, low specific speed, compact and able to deliver high heads with stable performance characteristics.

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Study on Flow of Polymer Aqueous  
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<sup>1</sup>College of Mechanical and Electrical  
Engineering, Southwest Petroleum  
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Numerical Simulation and Experimental  
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Abstract. This paper deals with an  
experimental study of the survivability of  
the offshore combined concept  
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The results indicate excellent agreement

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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. , Grant number, MOST-108-2221-E-006-088-MY3 .

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The numerical simulations by Guo et al. confirmed that adding  $H_2$  to  $C_2H_4$  is more effective than He in suppressing soot formation, which is qualitatively consistent

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with the experimental results of Güler et al. Zhao et al. investigated experimentally the distributions of flame structure and distributions of soot diameter and SVF in laminar  $C_2H_4$  diffusion flames by adding 2%, 5%, 10%, 15%, and 20% of He and  $H_2$ .

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