

Online Library Numerical Investigation Of A Liquid Gas Ejector In Marine

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Numerical simulations were performed based on the particle trajectory model of the Eulerian–Lagrangian method to obtain the velocity field of the liquid and the concentration distribution of the solid particles inside the extraction column. The simulation method was previously confirmed by experiments.

Numerical Investigation of Liquid–Solid Countercurrent ...

Abstract. Violent sloshing induced by excitation with large amplitudes or resonant frequencies may

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result in structural damage of the liquid-tank or even the overturning of the liquid cargo transport system. Therefore, impermeable and permeable vertical baffles were investigated numerically to suppress sloshing.

JMSE | Free Full-Text | Numerical Investigation of ...

Numerical Investigation of Liquid-Liquid Coaxial Flows Bhadraiah Vempati, Bhadraiah Vempati Department of Mechanical Engineering & Mechanics, ... This paper presents numerical results of the interfacial dynamics of axisymmetric liquid-liquid flows when the denser liquid is injected with a parabolic inlet velocity profile into a coflowing ...

Numerical Investigation of Liquid-Liquid Coaxial Flows ...

where d is the mean droplet diameter [mm]; D is the diameter of the initial liquid [mm]; u is the initial velocity [m/s]; σ is the surface tension coefficient [mN/m]; θ is the contact angle; and u_0 , σ_w , θ_w , and ρ_s are the reference values, which are 0.1 m/s, 74.92 mN/m, 1.31 mPa, and 75° , respectively.

Numerical investigation of liquid dispersion by ...

For a given liquid-side velocity (liquid load) u_L the thickness can be determined by: $(7) \theta = 3 \theta_Q \theta_g \sin \theta_B \frac{1}{3} = 3 \theta_u \theta_L \theta_A \theta_g \sin \theta_B \frac{1}{3} w$ i t h $Q = u_L \theta_A \theta$ where Q is the volumetric liquid flow rate and θ is void fraction. The Reynolds number is used for the presentation of the results.

Numerical investigation of liquid flow morphology in ...

A numerical simulation was carried out to investigate the process of gas-liquid reaction in a jet-type

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singlet oxygen generator by using volume of fluid coupled with large eddy simulation. The coupled hydrodynamic and reaction simulations provide detailed information about the reacting flow.

Numerical Investigation of Gas-Liquid Reacting Flow in a ...

Abstract Numerical simulation was used to study steady liquid water movement in a 5m by 5m vertical section containing a hypothetical fracture network under conditions of variable saturation. The fracture network was assumed to be embedded within an impermeable rock matrix. Three variations of a network were considered.

Numerical investigation of steady liquid water flow in a ...

The Lagrangian–Eulerian approaches are employed to model the discrete liquid fuel droplets and the continuous vapor phase, respectively. The breakup and evaporation of liquid droplets are modeled using sub-models, while the interactions between the liquid droplets and the vapor phase are expressed through the two-way interaction models.

Numerical investigation of the liquid-fueled pulse ...

Numerical modelling To evaluate the influence of liquid and supercritical CO₂ properties on flow behaviors through a self-affine rough fracture, Equation of State is an efficient method to calculate relevant properties, such as density and viscosity, under different temperatures and pressures.

Numerical investigation of liquid and supercritical CO₂ ...

We investigate the effects of gas-liquid ratio (GLR) on the spray and atomization process of a liquid-

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centered swirl coaxial injector using the coupled level-set and volume of fluid (CLSVOF) method. The flow field, gas-liquid interaction, and breakup of liquid film during adaptive mesh refinement are evaluated and analyzed.

Numerical investigation of the effects of gas-liquid ratio ...

In this study, the 3D numerical modeling of the condensation of a bubble inside subcooled liquid has been carried out under a uniform magnetic field and the effects of vertical and horizontal magnetic fields on the condensation behavior of the bubbles with initial diameters of 1.008 mm and 4 mm have been studied.

Numerical investigation of the condensation of a rising ...

A detailed numerical analysis of a liquid metal cooled mini-channel is presented. • Geometric and flow parameters of the mini-channel heat sink are optimized. • Hydraulic and thermal performance of the liquid metal is critically analyzed. • Performance of liquid metal is compared with other coolants like water and nanofluids. •

Numerical investigation of laminar flow and heat transfer ...

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LIQUID-ASSISTED GAS-LIFT UNLOADING A Dissertation Submitted to the Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Petroleum Engineering in

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Experimental and Numerical Investigation of Liquid ...

Abstract. An enhanced volume of fluid (VOF)-based numerical simulation framework that accounts for conjugate heat transfer between solid and two-phase flow regions and phase-change due to boiling/condensation, is utilised in order to investigate the effect of flow oscillation amplitude and frequency on the liquid film evaporation and instability formation in slug-plug flows within heated channels, in saturated flow boiling conditions.

Numerical investigation of liquid film instabilities and ...

An elliptic mesh generation technique, with the Galerkin Finite Element Method is used to compute the free surface of the two-phase flow problem of a gas displacing a non-Newtonian material in a capillary tube. Two classes of non-Newtonian materials

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Numerical investigation of turbulent aided mixed convection of liquid metal flow through a concentric annulus ... R. Stieglitz
Experimental investigation of the turbulent heavy liquid metal heat transfer in the thermal entry region of a vertical annulus with constant heat flux on the inner surface. Int. J. Heat Mass

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Transfer, 55 (2012), pp. 6435 ...

Numerical investigation of turbulent aided mixed ...

Numerical study of slug flow heat transfer in microchannels. International Journal of Thermal Sciences 2020, 147, 106118. DOI: 10.1016/j.ijthermalsci.2019.106118. Yan Cao, Jun Li, Yang Jin, Jianhong Luo, Ming Chen, Yubin Wang. Liquid-liquid two-phase flow patterns in a new helical microchannel device.

Experimental and Numerical Investigations of Two-Phase ...

An informed and systematic qualitative assessment of the topological variations of the phase interface during primary atomisation of a liquid film is made through dynamical analysis, while investigating an extensive domain of operating conditions at ambient and aero-engine injection conditions relevant to industry.

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