Numerical Simulation Of Two Phase Flow In An Effervescent Atomizer Numerical Simulation Of Two Phase Flow In An Effervescent Atomizer For Nano Suspension Spray

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Numerical Simulation Of Two Phase
The general pressure equation (GPE) is a new method proposed recently by Toutant (J. Comput. Phys., 374:822-842 (2018)) for incompressible flow simulation. It circumvents the Poisson equation for the pressure and performs better than the classical artificial compressibility method. Here it is generalized for two-phase incompressible viscous flows with variable density and viscosity. First, the ...

[2011.00814] Numerical simulation of two-phase ...
Numerical Simulation of Two-Phase Flow in Injection Nozzles: Interaction of Cavitation and External Jet Formation. Weixing Yuan, Assistant Research Officer,, Weixing Yuan, Assistant Research Officer, Aerodynamics Laboratory, Institute for Aerospace Research, National Research Council of Canada, Ottawa, ON K1A OR6, Canada.

Numerical Simulation of Two-Phase Flow in Injection ...
Numerical simulations of vapor-liquid two-phase flow in a three-dimensional subchannel are carried out. The numerical model is used for the prediction of subcooled flow boiling in reactor cores. The vapor and liquid are assumed to be incompressible, and the volume of fluid (VOF) model is chosen as the two-phase flow model to describe the phase distributions during the phase change process.

Numerical simulation of boiling two-phase flow in the ...
Corpus ID: 17934159. NUMERICAL SIMULATION OF TWO-PHASE FLUID MOTION IN MICROCHANNEL BASED ON PHASE-FIELD MODEL @inproceedings{Takada2013NUMERICALSO, title={NUMERICAL SIMULATION OF TWO-PHASE FLUID MOTION IN MICROCHANNEL BASED ON PHASE-FIELD MODEL}, author={N. Takada and J. Matsumoto and S. Matsumoto}, year={2013} }

[PDF] NUMERICAL SIMULATION OF TWO-PHASE FLUID MOTION IN ...
In this work, the numerical simulation of two phase flow in wellbores is composed of two parts which are drift flux correlation and pressure based solving method. We have discussed the performance of drift flux correlation and pressure based method in section 2 and section 3 separately. In this section, the numerical simulation method, which combines drift flux correlation and pressure based solving method, are testified through a full scale experiment.

Numerical simulation of two phase flow in wellbores by ...
In this paper, a numerical two-phase flow model for incompressible viscous fluid is presented for the simulation of wave propagation in shallow water, including the processes of wave shoaling, wave breaking, wave reflection and air movement. The model consists of the continuity equation, the Navier–Stokes equations, the fractional VOF function equation, and the equations of density and viscosity.

Numerical simulation of breaking waves using a two-phase ...
The mathematical modeling and numerical simulation of transient gas-liquid two-phase flow is of great significance for prediction techniques. The aim of the models is to accurately capture the transient behavior of each phase caused by the changes of mass and energy.

Numerical simulation of gas-liquid two-phase flow in ...
In this study, a comprehensive modelling has been conducted for the numerical simulation of the details of two-phase flow and heat transfer phenomenon in wickless heat pipe (Thermosiphon) so that these details cannot be observed in laboratory experiments.

Numerical Simulation of Two-phase Flow and Heat Transfer ...
In order to simulate pressure wave propagations in the two-phase flow system, this paper presents a new two-fluid numerical solution method for solving the two-phase flow process. A numerical convenient set of equations and the associated one-step coupled solution method are proposed for the model.

Numerical simulation of shock wave problems with the two ...
2. Mathematical model and numerical solution method 2.1. Filtered two-fluid model equations. Generally, the two-fluid model equations for gas and particle phases are obtained by translating Newton's equations of motion for a single particle directly into continuum equations representing the momentum balances for the solids phase.

Numerical simulation of gas-solid two-phase flow in a two ...
A 3-dimensional (3D) two-phase model that is based on volume of fluid is developed to study the liquid water-air cross flow within the GDL between 2 adjacent channels. By considering the detailed GDL microstructures, various types of air-water cross flows are investigated by 3D numerical simulation.

Numerical simulation of two-phase cross flow in the gas ...
Abstract. This study describes the numerical simulations of two-phase fluid motions under gravity by the lattice Boltzmann method (LBM), in which the fluid motions result from collision and translation of mesoscopic particles and the interface interaction in multiphase fluids can be reproduced in a self-organizing way.

Numerical simulation of two- and three-dimensional two ...
Ban, S., Pao, W. and Nasif, M.S. (2018), "Numerical simulation of two-phase flow regime in horizontal pipeline and its validation", International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 28 No. 6, pp. 1279-1314. https://doi.org/10.1108/HFF-05-2017-0195

Numerical simulation of two-phase flow regime in ...
This work seeks to apply the computational fluid dynamics–population balance model (CFD–PBM) to investigate the gas distribution and flow mechanism in the gas–liquid two-phase flow of a centrifugal pump. The findings show that the numerical simulation accurately captures the bubble distribution characteristics in the process of coalescence and breakage evolution.

Numerical Simulation of Gas–Liquid Two-Phase Flow ...
Abstract We provide a numerical procedure for the simulation of two-phase immiscible and incompressible flow in two- and three-dimensional discrete-fractured media. The concept of cross-flow equilibrium is used to reduce the fracture dimension from nto (n-1) in the calculation of flow in the fractures.

Control-volume method for numerical simulation of two ...
This paper presents a numerical simulation of melting of chemically pure material in two-dimensional square cavity. A single-domain model is used which does not require interface tracking and allows the use of a fixed grid in order to solve governing transport equations. ... J. Ni, C. BeckermannA volume-averaged two-phase model for transport ...

Numerical simulation of melting in two-dimensional cavity ...
At present, there are two approaches for numerical simulation of gas-particle two-phase flow: two-fluid model and particle-trajectory model.

Numerical Simulation of Gas-Particle Two-Phase Flow in a ...
ZHANG Yu-liang, LI Yi, CUI Bao-lin, ZHU Zu-chao, DOU Hua-shu. Numerical simulation and analysis of solid-liquid two-phase flow in centrifugal pump [J]. Chinese Journal of Mechanical Engineering. 2013, 26(1). Download references

Numerical simulation and analysis of solid-liquid two ...
numerical results of the paper, the hybrid AUSM-van Leer scheme is an accurate method to simulate two- phase transonic flows with nucleation. If the super cooling degree reaches to its maximum value, the non- equilibrium condensation begins and wetness fraction increases suddenly.