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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

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simulation.

Numerical simulation of two phase
cross flow in the gas ...

The general pressure equation (GPE)
is a new method proposed recently
by Toutant (J. Comput. Phys.,

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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

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ngs{Takada2013NUMERICALSO,
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MICROCHANNEL BASED ON PHASE-
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and J. Matsumoto and S. Matsumoto},
year={2013} }

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[PDF] NUMERICAL SIMULATION OF
TWO-PHASE FLUID MOTION IN ...

A correction has been published:

Erratum: “ Numerical Simulation of
Two-Phase Flow in Injection Nozzles:
Interaction of Cavitation and External
Jet Formation ” [Journal of Fluids

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Engineering, 2003, 125(6), pp.
963–969]

Numerical Simulation of Two-Phase
Flow in Injection ...

Abstract. This paper is devoted to the
direct numerical simulation of
compressible two-phase flows, i.e.

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Flow In An Effervescent Atomizer Numerical Simulation Of Two Phase Flow In An Effervescent Atomizer For Nano Suspension Spray including material interfaces, in an Eulerian framework. Eulerian methods, such as Volume Of Fluid, are easy to handle but suffer from numerical diffusion which spreads out the precise localization of the interface.

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Numerical Simulation of 2-D Two-
Phase Flows with Interface ...

Parting from bubbly flow pattern, the most promising numerical simulation of a two-phase turbulent flow through sudden expansions/contraction was carried out Roul and Dash (2011) who relied

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on the two-phase Eulerian–Eulerian scheme with the $k-\epsilon$ model of turbulence. It was shown that the calculated value of pressure changes across sudden expansion/contraction by the numerical method was in a near perfect agreement with experimentally measured data.

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Numerical simulation of two-phase
gas–liquid flow through ...

Numerical simulation of two-phase
flow was carried out on two types of
step-pool spillway with various
slopes. Comparison of the energy
dissipation rates and flow field

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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 n to $(n - 1)$ in the

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Turbulence kinetic energy difference
at (a) 75mm, and (b) 10mm. Trans
IChemE, Vol 79, Part A, July 2001
NUMERICAL SIMULATION OF TWO-

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PHASE FLOW 543 It is questionable whether the currently used k- ϵ model can correctly account for how the particle phase is affected by the turbulent fluid phase turbulence. It is well known that whether a particle will follow a turbulent flow or not is controlled by the magnitude of the

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viscous fluid is presented 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

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fractional VOF function equation, and the equations of density and viscosity.

Numerical simulation of breaking waves using a two-phase ...

Consequently, it is of major interest to model viscoelastic two-phase flows in

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order to ensure final product characteristics. However, the numerical simulation of viscoelastic fluids not only increases memory requirements and variables to be solved, but also yields to specific difficulties in the numerical solution.

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Numerical simulation of viscoelastic two-phase flows using ...
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

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

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Numerical simulation To analyze the effect of orientation on single-phase and two-phase flows in more detail, the above discussed experiments are numerically simulated by ANSYS CFX in both single-phase and two-phase flows. 3.1. Simulation of the single-

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Numerical simulation of single and two-phase flow across ...

Numerical simulation of two-phase “ Air-Seed ” flow in the distribution system of the grain seeder. ... The “ air-seed ” flow regime is two-

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phase set by the Reynolds number and the bulk concentration of particles. To calculate these parameters, there is given an aerodynamic calculation of the air flow velocity to ensure the pneumatic

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Numerical simulation of two-phase
“ Air-Seed ” flow in the ...
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With the development of
computational fluid dynamics (CFD)
and turbulence dynamics, numerical
simulation starts being applied on the
research of oil-water two-phase flow.
Oil-water stratified flow can be

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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

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Flow and Heat Transfer ...

A. Sokolichin, G. Eigenberger, A.

Lapin, A. Lübbert Dynamic numerical

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Science, 52 (1997), pp. 611-626

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Numerical simulation of two-phase
flow with bubble break ...

The analysis of two-phase flows
through numerical simulations is a
very useful tool to design and operate
long pipelines. It is also important for
monitoring the flow during adverse

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situations, such as the formation of hydrates and wax deposition that may occur due to temperature variations in the fluids along the pipe.

Numerical simulation of non-isothermal two-phase flow in ...

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