Study On Gas Liquid Two Phase Flow Patterns And Pressure

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Study On Gas Liquid Two

Study on Gas-liquid Two-phase Flow Patterns and Pressure ...
1341, Page 1 23rd International Compressor Engineering Conference at Purdue, July 11-14, 2016 Study on gas-liquid two-phase flow patterns and pressure drop in a helical channel with complex section Bo CAI1*, Guo-Dong XIA2, Jing-Fu WANG3 1Key Laboratory of Enhanced Heat Transfer and Energy Conservation, Beijing University of Technology, Beijing, China

a Gas- Liquid Two-Phase Mixed-Flow Pump
The gas-liquid two-phase transport exists widely in petroleum, chemical engineering, food, urban water supply, nuclear industry, etc Moreover, the energy performance of multiphase pumps handling gas-liquid two-phase flows will have a significant impact on the economic benefits of the relevant industries [1–4]

STUDIES OF TWO-PHASE GAS-LIQUID FLOW IN MICROGRA ...
Two-phase gas-liquid flows are expected to occur in many future space operations Due to a lack of buoyancy in the microgravity environment, two-phase flows are known to behave differently than those in earth gravity Despite these concerns, little research has been conducted on microgravity two-phase flow and the current understanding is poor

Fluid Flow and Heat Transfer of Gas-Liquid Two-Phase Flow ...
The fluid flow and heat transfer behavior of gas-liquid two-phase flows in square and rectangular microchannels is studied using a three-dimensional numerical simulation The liquid film thickness, friction factor and heat transfer rate of the gas-liquid Taylor flow are investigated in …

Void Fraction Measurement of Gas-Liquid Two-Phase Flow ...
1 Void Fraction Measurement of Gas-Liquid Two-Phase Flow from Differential Pressure Jiabin Jiab, Akintayo Babatundea and Mi Wang a* aSchool of

Chemical and Process Engineering, University of Leeds, LS2 9JT, UK bSchool of Engineering, University of Edinburgh, Edinburgh, EH9 3JL , UK jiabinjia@edacuk, rinade@msncom, mwang@leedsacuk

Simulation Study on Gas Holdup of Large and Small Bubbles ...

in gas–liquid two-phase flow were investigated using a CFD-PBM coupling model The results show that the gas holdup of small and large bubbles increases rapidly with the increase of superficial gas velocity With the increase of pressure, the gas holdup of small bubbles increases significantly, and the gas holdup of large bubbles increase

A two-phase mixing layer between parallel gas and liquid ...

the gas and liquid streams triggers an interfacial instability which can be convective or absolute depending on the stream properties and injection parameters In the present study, a direct numerical simulation of a two-phase gas-liquid mixing layer that lie in the absolute instability regime is conducted A dominant frequency is observed in

Experimental Study of Gas Slippage in Two-Phase Flow

Experimental Study of Gas Slippage in Two-Phase Flow Kewen Li, SPE, and Roland N Horne, SPE, Stanford U Summary Gas slippage in single-phase gas flow (the Klinkenberg effect) has

SPE 68778 Gas Slippage in Two-Phase Flow and the Effect of ...

SPE 68778 Gas Slippage in Two-Phase Flow and the Effect of Temperature 3 In this paper, gas-liquid relative permeabilities were measured at different pressures using an on-line weighing method with two balances The effect of water saturation on the slip factor of nitrogen was investigated A procedure of

Experimental Study of the Interfacial Waves in Horizontal ...

technique for study of gas-liquid slug flow along vertical pipes For horizontal annuli cases, Ozbayoglu and Yuksel [20] analyzed the gas-liquid two-phase behavior with image processing techniques Meanwhile, do Amaral et al [21] investigated using image processing techniques in two-phase

Comparison of One-Dimensional Analysis with Experiment for ...

cause of the complexly of the flo w This study is carried out on a gas-liquid two-phase flow nozzle (two -phase flow nozzle) of a driving nozzle flow section which is the most important section A divergent -convergent nozzle is generally used as a twophase flow nozzle- [3] In actual CO 2 refrigeration

Analysis of Two Phase Flow Pattern maps

Froude number of the two phases, u g and u l are the gas and liquid superficial velocities respectively 12 Properties of the experiment are the superficial gas and liquid velocity respectively in the feed was originally created for the study of slug flow in vertical direction Therefore, the map shows the region in which the slug

Study on ultrasonic velocity profile measurement in vapor ...

Study on ultrasonic velocity profile measurement in vapor-water two-phase flow Daisuke Ito1*, Hiroshige Kikura1, Masanori Aritomi1 and Michitsugu Mori2 1 Research Laboratory for Nuclear Reactors

Two-Phase Flow

It can be a solid, a liquid, or a gas Multiphase flow is the simultaneous flow of se veral phases The study of multiphase flow is very important in energy-related industries and applications The simplest case of multiphase flow is two-phase flow Two-phase flow can be solid-liquid flow, liquid-

liquid flow, gas-solid flow, and gas-liquid flow

DISPERSED TWO-PHASE FLOW IN A GAS–LIQUID ...

The performance of a gas–liquid cylindrical cyclone separator for the separation of air bubbles from hydraulic fluid has been analyzed numerically using the commercial computational fluid dynamics flow solver CFX Two-phase flow behavior is modeled based on an Eulerian–Eulerian approach, rep-

Experimental and theoretical study of acetic-acid ...

31 Gas–liquid two-phase flow and pulsed dielectric-barrier discharge Figure 3 shows the sequential photographs of gas–liquid two-phase flow at an oxygen gas flow rate of 400sccm The photographs were taken by the video camera with 2ms exposure at 400 frames per second, which corresponded to a timeintervalof625ms

International Journal of Heat and Fluid Flow

Experimental Study of gas–liquid two-phase flow affected by wall surface wettability T Takamasaa, T Hazukua,*, T Hibikib a Faculty of Marine Technology, Tokyo University of Marine Science and Technology, 2-1-6 Etchujima, Koto, Tokyo 135-8533, Japan bSchool of Nuclear Engineering, Purdue University, 400 Central Drive, West Lafayette, IN 47907-2017, USA

Study ofFlow Regime Transitions ofOil-Water-Gas Mixtures ...

Study ofFlow Regime Transitions ofOil-Water-Gas Mixtures in Horizontal Pipelines AH Lee, J-y' Sun and wPJepson Ohio University Athens, Ohio,USA Flow regime maps for gas-liquid two phase flow Three flow regime maps for gas-liquid two phase flow were completed in order to compare with the previous work and the flow

MODELING TWO-PHASE PIPE FLOW IN LIQUID LOADING GAS ...

gas wells affected by both liquid loading situations as well as artificial lift systems The new model is a flow-pattern-dependent correlation, hence, convenient to be used for simultaneous multi-well calculations

Gas-Liquid Two-Phase Flows Through Packed Bed Reactors in ...

Gas-Liquid Two-Phase Flows Through Packed Bed Reactors in Microgravity The simultaneous flow of gas and liquid through a fixed bed of particles occurs in many unit operations of interest to the designers of space-based as well as terrestrial equipment Examples include separation columns, gas-liquid reactors, humidification, drying,